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JANUARY

- 1 **INFORMATION FOR AUTHORS**
- 5 **REVIEW: Quantitative Immuno-electrophoretic Methods: A Literature Survey**
Ronald Verbruggen
- 44 **REVIEW: Therapeutic and Toxic Concentrations of More than 100 Toxicologically Significant Drugs in Blood, Plasma, or Serum: A Tabulation**
Randall C. Baselt, James A. Wright, and Robert H. Cravey
- 63 **OPINION: Inborn Errors of Metabolism—A Challenge to the Clinical Chemist**
Lorentz Eldjarn, Egil Jellum, and O. Stokke
- 67 **Enzymatic Determination of Serum Urea on the Surface of Silicone-Rubber Pads**
Jui-chang W. Kuan, Herbert K. Y. Lau, and George G. Guilbault
- 71 **Diagnostic Value of Routine Liver Tests**
Per Winkel, Klavs Ramsøe, Jørgen Lyngbye, and Niels Tygstrup
- 76 **Thin-Layer Chromatographic Detection and Identification of Methaqualone Metabolites in Urine**
H. Kenneth Steeman, James A. Cella, Johnnie L. Harvey, and Douglas J. Beach
- 81 **Radioimmunoassay of Drugs Subject to Abuse: Critical Evaluation of Urinary Morphine-Barbiturate, Morphine, Barbiturate, and Amphetamine Assays**
Salvatore J. Mulé, Eileen Whitlock, and Dennis Jukofsky
- 87 **Evaluation of Discrepancies in Patients' Results—An Aspect of Computer-Assisted Quality Control**
Philip Whitehurst, Thomas V. Di Silvio, and Gaydzag Boyadjian
- 93 **Zinc Protoporphyrin (ZPP): A Simple, Sensitive, Fluorometric Screening Test for Lead Poisoning**
Angelo A. Lamola, Morris Joselow, and T. Yamane
- 98 **Organic Nitrogen-Selective Detector Used in Gas-Chromatographic Determination of Some Anticonvulsant and Barbiturate Drugs in Plasma and Tissues**
Patrick A. Toseland, Michael Albani, and Franz D. Gauchel
- 104 **Increased Inorganic Serum Pyrophosphate in Serum and Urine of Patients with Osteogenesis Imperfecta**
Donald Armstrong, Dale VanWormer, and Clive C. Solomons
- 109 **Thin-layer Chromatography and Enzyme Immunoassay of L-Alpha-Acetyl Methadol and Methadone Metabolites in Urine**
Joyce A. McIntyre, Arlene E. Armandi, Lance P. Risen, Walter Ling, and George C. Haberfeide
- 113 **Continuous-Flow Measurement of Lactate in Blood: A Technique Adapted for Use in the Emergency Laboratory**
Edward Boyckes, Sybil Michaels, Max Harry Weil, Herbert Shubin, and Edward P. Marbach
- 119 **Nature of Materials in Serum That Interfere in the Glucose Oxidase-Peroxidase-o-Dianisidine Method for Glucose, and Their Mode of Action**
Walter J. Blaedel and James M. Uhl
- 125 **Simplified Automated Method for Determination of Urinary or Serum Uric Acid, Based on Reduction of Ferric-Phenanthroline Complex**
John W. Nelson and K. K. Batra
- 130 **Chemical Basis and Specificity of Chemical Screening Tests for Urinary Vanilmandelic Acid**
Joseph A. Knight, S. Fronk, and R. E. Haymond
- 134 **Measurement of Erythrocyte Glucose-6-Phosphate Dehydrogenase Activity with a Centrifugal Analyzer**
Edward W. Catalano, George F. Johnson, and Harvey M. Solomon
- 139 **Preliminary Evaluation of a Latex Agglutination-Inhibition Tube Test for Morphine**
Robert Ross, Charles A. Horwitz, Hans Hager, Magdalena Usategui, M. Desmond Burke, and Patrick C. J. Ward
- 144 **Gas-Chromatographic Determination of Theophylline in Human Serum and Saliva**
George F. Johnson, Walter A. Dechtiruk, and Harvey M. Solomon
- SCIENTIFIC NOTES**
- 148 **Solid-Phase Radioimmunoassay on Polystyrene Beads and Its Application to Dopamine- β -Hydroxylase**
Robert A. Rush, Shmuel H. Kindler, and Sidney Udenfriend
- 151 **Electronic Correction of Values That Are "Off-Scale" in the "SMA-6" System for Continuous-flow Analysis**
Louis Rosenfeld
- 154 **Inactivated Serum vs. Saline as a Diluent in Some Serum Enzyme Assays**
Ted W. Fendley and Christopher S. Frings
- 156 **Radioimmunoassay of Digoxin—Interference by Digitoxin**
Harumi Kuno-Sakai, Hideto Sakai, and Stephan E. Ritzmann
- 158 **Azide as a Preservative in Assays of Aspartate Amino-transferase Activity**
Robert Rej and Raymond E. Vanderlinde
- 157 **CORRECTIONS**
- CASE REPORT**
- 162 **Unusual Variant of Lactate Dehydrogenase Isoenzymes**
D. H. Buchholz, M.D., and R. K. Donabedian, M.D.
- LETTERS**
- 165 **Phase Equilibria of Oxygen in Blood-Gas Control Samples**
Ralph G. Mueller, Gordon E. Lang, Jeneane M. Daskam, and Patricia J. Lewis
- 166 **"Chromolytic" Methods for α -Amylase**
J. Fischer and J. Tovarek
- 166 **Glutamate and γ -Glutamyltranspeptidase Activity**
Robert C. Rock and Kenneth A. Slickers
(Reply)
Richard J. L. Bondar and Gerald A. Moss
- 168 **Guanidine Interference in Determination of Creatine Kinase**
G. Siest, M. M. Galteau, F. Schiele, and J. C. Brochet

- 169 **Fully Automated Procedure for Serum Magnesium**
Herbert K. C. Wong
- 169 **Identification of the Major Product from the Acid-Catalyzed Reaction of Ethchlorvynol**
Larry L. Needham and Man M. Kochhar
- 170 **On Kinetics of the Cholesterol-Sulfuric Acid Reaction**
Henry F. M. Chung
(Reply)
Harry L. Pardue and Thomas E. Hewitt
- 176 **Temperature Variation Detection in a Blood pH-Gas Analyzer**
Richard A. Durst
- 177 **Diagnosis of Heart and Liver Disease**
M. J. McQueen
- BOOK REVIEWS**
- 178 Lilian Lee, James B. Powell, and Ian MacGillivray
- 179 **THE CLINICAL CHEMIST**
J. S. King

FEBRUARY

- 183 **Improved Method for Densitometry of Electrophoretic Lipoprotein Fractions**
Wesley G. McTaggart and James L. Dwyer
- 186 **Drug Screening by Enzymatic Immunoassay with the Centrifugal Analyzer**
Alan Broughton and Doris L. Ross
- 190 **Comparison of Methods for Calculating Serum Osmolality from Chemical Concentrations, and the Prognostic Value of Such Calculations**
William V. Dorwart and Leslie Chalmers
- 195 **Immunochemical Determination of Serum Albumin with a Centrifugal Analyzer**
Mogens Blom and Niels Hjørne
- 199 **Kinetic Equations and Error Analysis for the Cholesterol-Sulfuric Acid Reaction**
Thomas E. Hewitt and Harry L. Pardue
- 206 **Routine Radioimmunoassay of Plasma Testosterone, and Results for Various Endocrine Disorders**
Pui-Yuen Wong, Donald E. Wood, and Thomas Johnson
- 211 **Vidicon Spectrometer Applied to Simultaneous Enzyme Determinations**
Michael J. Milano and Harry L. Pardue
- 216 **Determination of Serum Thyroxine after Dissociation from Thyroxine-Binding Globulin in Alkaline Solution and Adsorption on Dextran-Coated Charcoal**
William H. Wong
- 221 **Determination of Diphenylhydantoin in Human Serum by Spin Immunoassay**
Mark R. Montgomery, Jordan L. Holtzman, Richard K. Leute, John S. Dewees, and Gunner Bolz
- 227 **Effects on Radioimmunoassay of Digoxin of Varying Incubation Periods for Antigen-Antibody Reaction and Varying Periods of Adsorption by Dextran-Coated Charcoal**
Harumi Kuno-Sakai and Hideto Sakai
- 230 **Serum and Erythrocyte Argininosuccinate Lyase Assay by NADH Fluorescence Generated from Formed Fumarate**
John E. Sherwin and Samuel N. Nelson
- 235 **Evidence Supporting a Proposed Mechanism Explaining the Inverse Relationship between Guanidinoacetate and Guanidinosuccinate in Human Urine**
Anthony Koller, Jay D. Comess, and Samuel N. Nelson

- 243 **Methodologic Differences in Values for M-Proteins in Serum, as Measured by Three Techniques**
Jerry C. Daniels, Theona M. Vyvial, William C. Levin, and Stephan E. Ritzmann
- 249 **Theory of Photometric Errors Applied to the Design and Evaluation of a High-Performance Filter Photometer**
Thomas E. Hewitt and Harry L. Pardue

SCIENTIFIC NOTES

- 255 **pH Measurement Problems Affecting Assay of Carcinoembryonic Antigen**
Jack H. Ladenson and C. Elliott Bell, Jr.
- 256 **Presence of Carotenoids in the Erythrocyte Membranes of Carotenemic and Noncarotenemic Individuals**
Micheline M. Mathews-Roth
- 260 **Lecithin-Sphingomyelin Ratio in Amniotic Fluid, as Assessed by a Modified Thin-Layer Chromatographic Method in Which a Commercial Pre-Coated Plate Is Used**
Valyacheri R. Mallikarjuneswara
- 264 **Evaluation of the Corning 940 Calcium Titrator for Use with Serum and Urine**
Earl B. Weissman, Desider A. Pragay, and Charles Bishop

LETTERS

- 268 **Depressed Apparent Creatine Kinase Activity in Sera with Abnormally High Alkaline Phosphatase Activity**
Rudolph G. Mueller, Karen Neville, Diane D. Emerson, and Gordon E. Lang
- 269 **Standardization of Methemoglobin Analyses with Nitrite**
Roger P. Smith
(Reply)
William A. Groff, Sr.
- 270 **Evaluation of an Iodine-125 Digoxin Radioimmunoassay Kit**
G. S. Ahluwalia and Z. J. Kuczala
- 271 **Expressing Enzyme Results**
Leo G. Morin
(Reply)
Raymond E. Vanderlinde
- 272 **What Upper Limit of Creatine Kinase Activity Defines Disease?**
Robert S. Galen and S. Raymond Gambino

BOOK REVIEWS

- 273 Hanns-Dieter Gruemer, Sylvan M. Sax, Ruth D. McNair, and Paul B. Hamilton
- 276 **THE CLINICAL CHEMIST**
J. S. King

MARCH

- 285 **REVIEW: The Potential of Phosphorescence Spectrometry in Clinical Chemistry—The New Generation of Instrumentation and Methodology**
C. M. O'Donnell and J. D. Winefordner
- 300 **OPINION: Lipoprotein Electrophoresis Should Be Discontinued as a Routine Procedure**
R. M. Iammarino
- 309 **GUEST EDITORIAL: Some Nonparametric Statistical Tests for Quick Evaluation of Clinical Data**
E. Melvin Gindler

- 315 **Statistical Evaluation of Method-Comparison Data**
Gaw Tzu Wu, Stanley L. Twomey, and Ralph E. Thiers
- 321 **The Impact of Laboratory Error on the Normal Range: A Bayesian Model**
R. D. Krause, V. D. Anand, H.-D. Gruemer, and T. A. Willeke
- 325 **Assay of L-Tyrosine in Serum by Amperometric Measurement of Tyrosinase-catalyzed Oxygen Consumption**
Anand Kumar and Gary D. Christian
- 330 **Effect of Lactate Dehydrogenase Isoenzymes on the Coupled Enzymatic Assay for Alanine Aminotransferase Activity**
Michael M. Chang and Tai Wha Chung
- 334 **Automated Differentiation and Measurement of Hexosaminidase Isoenzymes in Biological Fluids and Its Application to Pre- and Postnatal Detection of Tay-Sachs Disease**
Abraham Saifer, George W. Parkhurst, and June Amoroso
- 343 **Comparison of Human Pancreatic and Parotid Amylase Activities on Different Substrates**
Doris J. Stiefel and Patricia J. Keller
- 347 **Examination of Some Factors Affecting Sensitivity and Reproducibility in Radioimmunoassay of Thyrotropin**
Russell J. Moser and Dorothy R. Hollingsworth
- 353 **Determination of Orotic and Dihydroorotic Acids in Biological Fluids and Tissues**
Leo Kesner, Frank L. Aronson, Morris Silverman, and Phillip C. Chan
- 356 **Interlaboratory Comparison of Enzymatic Methods for Serum Glucose Determination**
Nathan Gochman, William T. Ryan, Rex E. Sterling, and Graham M. Widdowson
- 362 **Use of Leuco-Dyes in the Quantitative Colorimetric Microdetermination of Hemoglobin and Other Heme Compounds**
David Alan Ahlquist and Samuel Schwartz
- 370 **Standardizing ^{125}I Sources and Determining ^{125}I Counting Efficiencies of Well-Type Gamma Counting Systems**
Donald L. Horrocks
- 376 **Manual Determination of Intra-Erythrocytic 2,3-Diphosphoglycerate in Whole Blood by Enzymatic Analysis, and Comparison with Ion-Exchange Chromatography**
James C. Dettler, Donald F. Gibson, Stuart F. MacMillan, and Thomas H. Oas
- 381 **Electrophoresis on Cellulose Acetate and Chromatography on DEAE-Sephadex A-50 Compared in the Estimation of Creatine Kinase Isoenzymes**
Walid G. Yasmineh and Naomi Quast Hanson
- 387 **Comparison of Clinical Assays for Serum Corticosteroids**
Nai-Siang Jiang, Dwaine Machacek, and Orlando P. Wadel
- 392 **Separation of Creatine Kinase Isoenzymes in Serum by Ion-Exchange Column Chromatography (Mercer's Method Modified to Increase Sensitivity)**
Daniel A. Nealon and Arthur R. Henderson
- 398 **Improved Biuret Procedure for Routine Determination of Urinary Total Proteins in Clinical Proteinuria**
Eugene W. Rice
- 402 **Effect of Albumin on Serum Digoxin Radioimmunoassays**
David L. Voshall, Lynda Hunter, and Harold J. Grady
- 407 **Use of Nucleic Acid Hybridization for Specific Detection of Submicrogram Quantities of DNA, and Its Application to Human Plasma**
Charles R. Steinman

SCIENTIFIC NOTES

- 412 **Automated Method for Determination of Bound N-Acetylneuraminic Acid in Serum**
Elisabeth Rey, Lucile Gerbaut, and Christian Lombart
- 414 **Free Amino Acids in Human Tonsillar Tissue**
Yasuyuki Doi and Akikatsu Kataura
- 417 **Comparison of Results for Morphine Urinalyses by Radioimmunoassay and Thin-Layer Chromatography in a Narcotic Clinic Setting**
Robert J. Kokoski and Mishrilal Jain
- 420 **Mechanized Enzymatic Determination of Triglycerides in Serum**
Giovanni Bucolo, Juanito Yabut, and Ting Yen Chang
- 424 **Lipase-Triggered Kinetic Assay of Serum Triglycerides**
Giovanni Bucolo, Ralph McCroskey, and Nadine Whittaker
- 427 **pH Dependence of the Binding of Folate to Milk Binder in Radioassay of Folate**
Joan K. Givas and Sidney Gutcho
- 428 **Simultaneous Determination of Serum Cholesterol and Triglycerides after Preliminary Column Chromatography**
Godfrey Moses, Edwin Olivero, and Thomas F. Draisey

SELECTED METHODS

- 432 **Transketolase Activity of Blood Hemolysate, a Useful Index for Diagnosing Thiamine Deficiency**
L. G. Warnock
- 437 **A Manual Colorimetric Assay of Triclycerides in Serum**
Homer G. Biggs, John M. Erikson, and Wells R. Moorehead

LETTERS

- 447 **Simplified Determination of Plasma p-Aminohippurate in Testing Kidney Function**
Hippocrates Yatzidis
- 447 **Measurement of Plasma Renin Activity**
Clara M. Heise
(Reply)
Betty Lash and Norman Fleischer
- 449 **Stable Diazo-p-benzenesulfonic Acid Solutions for Bilirubin Assays**
Homer G. Biggs, Peggy Ledyard, and Steve Kasper
- 450 **Separation of Creatine Kinase Isoenzymes by High-Pressure Liquid Chromatography**
Paul J. Kudrka, Michael G. Busby, R. Neill Carey, and E. Clifford Toren, Jr.
- 452 **A Stable Lipoprotein Electrophoresis Control**
Gloria W. Sage

BOOK REVIEWS

- 453 **Albert A. Dietz, Robert L. Dryer, Eugene Pergament, J. S. King, H.-D., Gruemer, Nelson L. Alpert, and Ferrin B. Moreland**
- 456 **THE CLINICAL CHEMIST**
J. S. King

APRIL

Special Issue on Trace Elements in Clinical Chemistry

- 467 **EDITORIAL: A Burgeoning Branch of Clinical Analysis**
J. S. King
- 468 **GUEST EDITORIAL: Trace-Element Nutrition in Health and Disease: Contributions and Problems of Analysis**
Walter Mertz
- 476 **REVIEW: Trace Elements—A Selective Survey**
John G. Reinhold
- 501 **REVIEW: Newer Aspects of the Roles of Zinc, Manganese, and Copper in Human Nutrition**
Robert E. Burch, Henry K. J. Hahn, and James F. Sullivan
- 521 **Binding of $^{63}\text{Ni}(\text{II})$ to Ultrafiltrable Constituents of Rabbit Serum In Vivo and In Vitro**
Noritake Asato, Maria van Soestbergen, and F. William Sunderman, Jr.
- 528 **Serum Zinc, Iron, and Copper Concentrations during Typhoid Fever in Man: Effect of Chloramphenicol Therapy**
Robert S. Pekarek, R. M. Kluge, H. L. DuPont, R. W. Wannemacher, Jr., R. B. Hornick, K. A. Bostian, and W. R. Beisel
- 533 **Micro-Scale Blood Lead Determinations in Screening: Evaluation of Factors Affecting Results**
Martin Marcus, Melvin Hollander, Robert E. Lucas, and Norman C. Pfeiffer
- 537 **Ultramicro Analysis for Copper, Cadmium, and Zinc in Human Liver Tissue by Use of Atomic Absorption Spectrophotometry and the Heated Graphite Tube Atomizer**
Merle A. Evenson and C. Thomas Anderson, Jr.
- 544 **Effect of Zinc Deficiency and Repletion on Thymidine Metabolism**
Jeng M. Hsu and William L. Anthony
- 551 **Intercomparison Program of Lead, Mercury, and Cadmium Analysis in Blood, Urine, and Aqueous Solutions**
Robert Lauwerys, Jean-Pierre Buchet, Harry Roels, Alexander Berlin, and Jan Smeets
- 558 **Micromethod for Lead Determination in Whole Blood by Atomic Absorption, with Use of the Graphite Furnace**
Frank J. Fernandez
- 562 **Technique for Determining Nickel in Blood by Flameless Atomic Absorption Spectrophotometry**
Hans Zachariasen, Ivar Andersen, Carl Kostøl, and Richard Barton
- 568 **Serum and Tissue Enzyme Activity and Trace-Element Content in Response to Zinc Deficiency in the Pig**
Robert E. Burch, Robert V. Williams, Henry K. J. Hahn, Mary M. Jetton, and James F. Sullivan

- 578 **Influence of Myocardial Infarction on Serum Manganese, Copper, and Zinc Concentrations**
Jacques Versieck, Fabrice Barbier, Albert Speecke, and Julien Hoste
- 582 **Zinc Deficiency in Sickle Cell Disease**
Ananda S. Prasad, Eric B. Schoomaker, Jesus Ortega, George J. Brewer, Donald Oberleas, and Fred J. Oelshlegel, Jr.
- 588 **Effect of the Matrix of the Standard on Results of Atomic Absorption Spectrophotometry of Zinc in Serum**
Berislav Momčilović, Bartholomeus Belonje, and Bhagwan G. Shah
- 591 **Microanalytical System for Determination of Picogram Quantities of Metals in Metalloenzymes, as Illustrated with Zinc-containing Enzymes**
Hiroshi Kawaguchi and David S. Auld
- 595 **Some Aspects of Specimen Collection and Stability in Trace Element Analysis of Body Fluids**
Vir D. Anand, James M. White, and Hipolito V. Nino
- 603 **Trace Elements in Hair, as Related to Exposure in Metropolitan New York**
John P. Creason, Thomas A. Hanners, Joseph E. Bumgarner, and Cecil Pinkerton
- 613 **Retention of Fluoride with Time in Man**
Herta Spencer, Dace Osis, and Emilie Wiatrowski
- 619 **Determination of Serum Copper by Atomic Absorption, with Use of the Graphite Cup**
Merle A. Evenson and Brenda L. Warren
- 626 **Determination of Cadmium in Blood and Urine by Graphite Furnace Atomic Absorption Spectrophotometry**
Elizabeth F. Perry, S. Roy Koirtjohann, and H. Mitchell Perry, Jr.

SCIENTIFIC NOTES

- 630 **Linear Working Graphs in Blood Lead Determinations with the Beckman Flameless Atomic Absorption Cuvet**
T. A. Kilroe-Smith
- 632 **Effect of Carbon Cup Aging on Plasma Zinc Determination by Flameless Atomic Absorption Spectrometry**
Michael K. Chooi, John K. Todd, and Nigel D. Boyd

LETTERS

- 636 **Radioimmunoassay of Digoxin: Effect of Albumin**
William Shaw
(Reply)
Jordan L. Holtzman and Rex B. Shafer
- 637 **Should Gels Be Washed or Pressed to Remove Excess Protein?**
A. R. Bradwell and D. Burnett
- 637 **Effect of Diphenylhydantoin on Serum Copper, Zinc, and Magnesium**
John Vasiliades and T. Sahawneh
- 638 **Reference Thermometry**
R. W. A. Oliver
- 638 **Determining Hematocrits by Weight**
Morris M. Joselow and Andrew Stefaniwski
- 639 **Use of a Munsell Color Chart to Describe Urine Color**
Thillainathan Sivakumaran
- 639 **Hyper-Alpha-Lipoproteinemia: A Case Study**
Herbert K. Naito, Lena A. Lewis, Lawrence J. McCormack, Grace Hofstetter, and J. Mihanovic
- 641 **Updating Continuous-flow Uric Acid Methodology**
Wells R. Moorehead and Linda M. Kasper

BOOK REVIEWS

- 642 **Thomas D. Stevenson**

- 644 **THE CLINICAL CHEMIST**
J. S. King

MAY

Effects of Drugs on Clinical Laboratory Tests

D. S. Young, L. C. Pestaner, and Val Gibberman

Introduction 1D

- 1 **List of Search Terms** 4D
- 2 **Proprietary/Generic Name and Search Term Directory** 10D
- 3 **Abbreviation and Short-Form Directory** 53D
- 4 **Alphabetic Listing by Drug Name** 56D
- 5 **Alphabetic Listing by Laboratory Test** 240D
- 6 **References** 400D

Ordering Information 3D

MAY

- 653 **REVIEW: The Prostaglandins in Clinical Medicine. A Developing Role for the Clinical Chemist**
Paul T. Russell, Andrea J. Eberle, and Hsien C. Cheng
- 667 **Serum Immunoglobulins after Surgical Operation**
Janet M. Fuller and J. W. Keyser
- 672 **Comparison of Radioimmunoassay with Thin-Layer Chromatographic and Gas-Liquid Chromatographic Methods of Barbiturate Detection in Human Urine**
David L. Roerig, Donna L. Lewand, Marilyn A. Mueller, and Richard I. H. Wang
- 676 **Evaluation of the New "System Olli 3000" Kinetic Ultraviolet Analyzer for Measuring Aspartate and Alanine Aminotransferase and Lactate Dehydrogenase Activities in Serum**
Herman Adlercreutz, Veikko Peltonen, and Tauno Voipio
- 685 **Use of Carbon Dioxide- and Oxygen-Tonometered Phosphate-Bicarbonate-Chloride-Glycerol-Water Mixtures for Calibration and Control of pH, p_{CO_2} , and p_{O_2} Electrode Systems**
A. H. Veefkind, R. A. M. Van den Camp, and A. H. J. Maas
- 694 **New, Simple Maltogenic Assay for Mechanized Determination of Alpha-Amylase Activity in Serum and Urine**
Henning F. Proelss and Billy W. Wright
- 703 **Direct Determination of Total Serum Cholesterol by Use of Double-Wavelength Spectrophotometry**
Philip B. Sommers, Peter I. Jatlow, and David Seligson
- 708 **Radioimmunoassay of Plasma Testosterone, with Use of Polyethylene Glycol to Separate Antibody-Bound and Free Hormone**
Peter H. Anderson, Kimiko Fukushima, and Harvey S. Schiller

- 715 **Fluorometric Assay of Serum γ -Glutamyltransferase in Solution and on a Semi-Solid Surface**
Bernd Rietz and George G. Guilbault
- 719 **Nonchromatographic Radioimmunoassay of Plasma 11-Deoxycortisol, for Use in the Metirapone Test, with Polyethylene Glycol as the Precipitant**
Lilian M. Y. Lee and Harvey S. Schiller
- 725 **Above-Normal Urinary Excretion of Urinary Ceramides in Farber's Disease, and Characterization of Their Components by High-Performance Liquid Chromatography**
Masao Iwamori and Hugo W. Moser
- 730 **Fluorimetry of Citrate in Serum, with Use of Citrate (pro-3S)-Lyase**
Arthur J. Tomisek, Edward M. Winkler, and Samuel Natelson
- 735 **Gas-Liquid Chromatography of Phenylalanine and Its Metabolites in Serum and Urine of Various Hyperphenylalaninemic Subjects, Their Relatives, and Controls**
Teruo Kitagawa, Barbara A. Smith, and Eleanor S. Brown
- 741 **Thermochemical Determination of Glucose in Serum, Plasma, and Whole Blood without Prior Deproteinization**
C. David McGlothlin and Joseph Jordan
- 746 **Ultramicroscale Determination of Clinical Chemical Values for Blood during the First Four Days of Postnatal Life**
Larissa deBaare, Jean Lewis, and Helen Sing
- 761 **CORRECTIONS**
- SCIENTIFIC NOTES**
- 751 **Flash-Heater Ethylation of Some Antiepileptic Drugs**
Patrick Friel and Allan S. Troupin
- 754 **A More Sensitive Automated Method for Determination of Ornithine Carbamoyltransferase Activity in Human Serum**
Kathleen J. Clayson, James S. Fine, and Paul E. Strandjord
- 757 **Automated Determination of Serum Ceruloplasmin Activity with α -Dianisidine Dihydrochloride as Substrate**
Karl H. Schosinsky, H. Peter Lehmann, and Myrton F. Beeler
- 760 **Preparation of a Modified Glucose Oxidase Reagent for the Polarographic Determination of Glucose with the Beckman "Glucose Analyzer"**
Joseph Fischl, Doza Federman, and Nira Talmor
- 762 **Electronic Timing of a High-Speed Immunonephelometric Continuous-Flow System**
Jorge Lizana, Lennart Jansson, and Kristoffer Hellsing
- 765 **Improved Estimation of Urinary Myoglobulin by Counterimmunoelectrophoresis, as Compared with the Double Immunodiffusion Technique**
Hazem Hibrawi and Robert G. Blaker
- 768 **Simple Manual Procedure for Determination of Serum Triglycerides**
Jose Mendez, Barry Franklin, and Harry Gahagan
- 770 **Improved Radioimmunoassay of Plasma Cortisol**
John Donohue and Demetrios Sgoutas
- 774 **Procedure for Calibrating the Technicon Colorimeter I**
John C. Black and William B. Furman
- 776 **Some Sources of Errors and Artifacts in Spectrophotometric Measurements**
Keith J. Ellis and John F. Morrison
- SELECTED METHOD**
- 778 **Determination of Urinary Total Protein by Use of Gel Filtration and a Modified Biuret Method**
Karl Doetsch and Richard H. Gadsden
- SPECIAL REPORT**
- 782 **An FDA Clinical Instrument "Recall"**
Nelson L. Alpert
- LETTERS**
- 787 **More on Values for Alkaline Phosphatase Activity in Calibration Sera**
Thomas J. Tracey

BOOK REVIEWS

- 788 Elliot S. Vesell, Irving Sunshine, Donald F. Logsdon, Jr., Dean S. Skelley, Arthur F. Johnson, Julius Sendroy, Jr., and H. H. Marsh

793 THE CLINICAL CHEMIST

J. S. King

JUNE

- 803 **REVIEW: The Scope of Mass Spectrometry in Clinical Chemistry**
Alexander M. Lawson
- 825 **Citrate Synthesis by Lymphocytes**
Padmakar K. Dixit and Ruth Cadwell
- 829 **Computer-Controlled Automation of Radioimmunoassay Based on Gel Entrapment of Antibody**
David B. Cottrell, E. Clifford Toren, Jr., Judith A. Magnuson, and Stuart J. Updike
- 834 **Rapid Analysis for Theophylline in Serum by Use of High-Pressure Cation-Exchange Chromatography**
Miles Weinberger and Charles Chidsey
- 838 **Gas-Liquid Chromatographic Measurement of Guanidino Acids**
Harini Patel and Burton D. Cohen
- 844 **Rapid Separation of Plasma Creatine Kinase Isoenzymes by Batch Adsorption on Glass Beads**
Philip D. Henry, Robert Roberts, and Burton E. Sobel
- 850 **Evaluation of the Revised Serum Calcium Procedure Used with the Du Pont Automatic Clinical Analyzer**
Gloria Welt Sage, David LeFever, and John Bernard Henry
- 853 **Direct Method for Measuring Lipoprotein-X in Serum**
Wolfgang Neubeck and Dietrich Seidel
- 857 **Comparison of Five Radioimmunoassays and Enzyme Bioassay for Measurement of Digoxin in Blood**
Archie A. MacKinney, Jr., George H. Burnett, Robert L. Conklin, and Gertrude W. Wasson
- 860 **Relative Usefulness of Measuring Polyamines in Serum, Plasma, and Urine as Biochemical Markers of Cancer**
Diane H. Russell and Shauna D. Russell
- 864 **Calibration of Ion-Selective Electrodes for Use in Biological Fluids**
M. S. Mohan and Roger G. Bates
- 873 **Quantitation of Free, Total, and Antibody-bound Insulin in Insulin-Treated Diabetics**
William D. Gennaro and John D. Van Norman
- 880 **Enzyme Activities of NADPH-Forming Metabolic Pathways in Normal and Leukemic Leukocytes**
Francesco Belfiore, Vito Borzi, Luigi Lo Vecchio, Elena Napoli, and Agata M. Rabuazzo
- 884 **Molar Absorptivities of β -NADH and β -NAD at 260 nm**
Erich Haid, Paul Lehmann, and Joachim Ziegenhorn
- SCIENTIFIC NOTES**
- 888 **Use of High-Resolution Open Tubular Glass Capillary Columns to Separate Acidic Metabolites in Urine**
Brian A. Knights, Mary Legendre, John L. Laseter, and James S. Storer
- 891 **Correction for Spectral Interference with Determination of Lead in Blood by Non-Flame Atomic Absorption Spectrometry**
V. P. Garnys and Jaroslav P. Matoušek

- 894 **Rate of Decrease in Serum Ethchlorvynol Concentrations after Extreme Overdosage—A Case Study**
Donald J. Pochopien
- 896 **Venous Serum, Capillary Serum, and Capillary Plasma Compared for Use in Determination of Lactate Dehydrogenase and Aspartate Aminotransferase Activities**
Russell E. Haymond and Joseph A. Knight
- 898 **Inhibitory Effect of Fluoride on Glucose Tests with Glucose Oxidase Strips**
John Onstad, Daniel Hancock, and Paul L. Wolf

9th INTERNATIONAL CONGRESS ON CLINICAL CHEMISTRY

- 899 **Scientific Program**
- 918 **Symposia Lecturers and Abstracts**
- 941 **Abstracts of Papers**

LETTERS

- 1038 **Faster Gas-Chromatographic Procedure for Theophylline**
Walter Dechtiaruk, George F. Johnson, and Harvey M. Solomon
- 1039 **RIA of Digoxin: Bioconversion or Interference?**
Rodney E. Willard
(Reply)
Harumi Kuno-Sakai
- 1040 **What Serum Enzymes Should Be Measured in Pediatric Patients?**
Derek A. Applegarth, Betty Kleiman, and Parminder Singh
- 1041 **More Efficient Use of Electron-Capture Detectors**
P. L. Ryan
- 1041 **Criticism of a Selected Method: Propionylthiocholineresterase**
Stanley S. Brown and E. Margaret Price
(Reply)
Albert A. Dietz and Herbert M. Rubinstein
- 1042 **Expressing Results for Enzymes (cont.)**
Robert G. Lancaster
(Reply)
George N. Bowers, Jr.

BOOK REVIEWS

- 1046 **Jeffrey R. Dawson and Nathan Gochman**
- 1047 **THE CLINICAL CHEMIST**
J. S. King

JULY

- 1057 **GUEST EDITORIAL: Selection of "Recommended Methods" for Use in a Clinical Laboratory—Some Urgent Considerations and a Suggested Approach**
Denis O. Rodgerson and Norbert W. Tietz
- 1059 **A Radioimmunoassay for isoniazid**
Robert Schwenk, Kenneth Kelly, Kam S. Tse, and Alec H. Sehon
- 1063 **Immunological Measurement of Transferrin Compared with Chemical Measurement of Total Iron-Binding Capacity**
Swei H. Tsung, Waldemar A. Rosenthal, and Karen A. Milewski

- 1067 **Electrophoretic Patterns of Alkaline Phosphatase Isoenzymes in Human Sera with Abnormally High Activity, and an Unusual Band Observed in Sera of Patients with Pancreatic Cancer**
Chung-Ja Mo Cha, Balduino Mastrofrancesco, Sungman Cha, and Henry T. Randall
- 1072 **Comparison of Electrophoresis on Citrate Agar, Cellulose Acetate, or Starch for Hemoglobin Identification**
Edward J. Hicks and Blossie J. Hughes
- 1077 **Aspartate Aminotransferase and Alanine Aminotransferase Activities in Plasma: Statistical Distributions, Individual Variations, and Reference Values**
Gérard Siest, Françoise Schiele, Marie-Madeleine Galteau, Edwige Panek, Josiane Steinmetz, Francis Fagnani, and René Gueguen
- 1088 **Detection of Cardiac-Specific Creatine Kinase Isoenzyme in Sera with Normal or Slightly Increased Total Creatine Kinase Activity**
Donald W. Mercer and Murray A. Varat
- 1093 **Colorimetric Enzymatic Determination of Serum Total Carbon Dioxide, as Applied to the Vickers Multichannel 300 Discrete Analyzer**
Kenneth A. Norris, Alan R. Atkinson, and William G. Smith
- 1102 **Simultaneous Separation of Serum Creatine Kinase and Lactate Dehydrogenase Isoenzymes by Ion-Exchange Column Chromatography**
Donald W. Mercer
- 1107 **Evaluation of the Beckman "System TR Enzyme Analyzer"**
Richard Passey, Ronald L. Gillum, Mary Louise Giles, and John B. Fuller
- 1113 **Practical Applications of Radioimmunoassay Theory. A Simple Procedure Yielding Linear Calibration Curves**
Alberto A. Fernandez and Harold G. Loeb
- 1121 **Erythrocyte Protoporphyrin in the Detection of Iron Deficiency**
Gordon D. McLaren, John T. Carpenter, Jr., and Hipolito V. Nino
- 1128 **Electrophoretic Method for Assessing the Normal and Pathological Distribution of Alkaline Phosphatase Isoenzymes in Serum**
Lilian M. Y. Lee and Margaret A. Kenny
- 1136 **New Colorimetric Reaction for End-Point, Continuous-Flow, and Kinetic Measurement of Urea**
David Jung, Homer Biggs, John Erikson, and Peggy U. Ledyard
- 1141 **Interlaboratory Proficiency, Intermethod Comparison, and Calibrator Suitability in Assay of Serum Aspartate Aminotransferase Activity**
Robert Rej, C. F. Fasce, Jr., and Raymond E. Vanderlinde
- 1159 **Standards for Total Serum Protein Assays—A Collaborative Study**
Basil T. Dourmas

SCIENTIFIC NOTES

- 1167 **Improved Colorimetric Determination of Salicylic Acid and Its Metabolites in Urine**
Nagy A. Farid, Gordon S. Born, Wayne V. Kessler, S. M. Shaw, and W. E. Lange
- 1169 **Standardization of Incubation Time and Temperature for Eight Radioimmunoassays**
Paul H. Lenz, George H. Wien, and Janice M. Toth
- 1172 **Modification of a Commercially Available Digoxin Radioimmunoassay Kit for Higher Precision**
W. J. F. van der Vijgh

- 1175 **A Versatile Temperature-Controlled Reaction Cuve**
Michael G. Busby, David B. Cottrell, George S. Cernowski, and E. Clifford Toren, Jr.

LETTERS

- 1180 **Novel Dual-channel Dialyzer for Continuous-flow Analyzers**
William E. Neeley, Helen C. Sing, and Tad Yates
- 1180 **Pentose Cycle in Leukocytes**
Stephen P. Coburn, James M. Hodges, and H.-D. Gruemer
- 1180 **Fluorometric or Gas-Liquid Chromatographic Determination of Procainamide?**
K. Frislid, J. E. Bredesen, and P. K. M. Lunde
- 1182 **Osmolality—Calculated, "Delta," and More Formulas**
Harry F. Weisberg
(Reply)
W. V. Dorwart and L. Chalmers

BOOK REVIEWS

- 1186 Julius Sendroy, Jr., Robert B. Nix and Joseph S. Annino, Lena A. Lewis, W. F. Ulrich, Cornelius F. Strittmatter, and Warren M. Wise
- 1189 **THE CLINICAL CHEMIST**
J. S. King

AUGUST

Seventh Annual Symposium on Advanced Analytical Concepts for the Clinical Laboratory, March 13 and 14, 1975. Sponsored by the Oak Ridge National Laboratory and the National Institute of General Medical Sciences

1191 INTRODUCTION

Charles D. Scott and Robert S. Melville

I. ADVANCED CONCEPTS

- 1192 **Applications of a Vidicon Spectrometer to Analytical Problems in Clinical Chemistry**
Harry L. Pardue, Alan E. McDowell, Douglas M. Fast, and Michael J. Milano
- 1201 **Improved Measurement of Erythrocyte Volume Distribution by Aperture-Counter Signal Analysis**
Cleveland S. Waterman, Earl E. Atkinson, Jr., Bert Wilkins, Jr., Craig L. Fischer, and Steve L. Kimzey
- 1212 **Continuous Monitoring of Radioactivity of Effluent from a High-Speed Amino Acid Analyzer, with a New System of Sample Segmentation**
Bohdan Bakay
- 1217 **Automated Elution Electrophoresis: A Potential Clinical Tool**
Charles D. Scott, Norman E. Lee, and Arthur W. Perkins
- 1221 **Computer Interface for Data Acquisition and Control of an SMA 12/60**
J. E. Davis and J. W. Lewis
- 1225 **Development of a Multipurpose Optical System for Use with a Centrifugal Fast Analyzer**
C. A. Burtis, W. D. Bostick, and W. F. Johnson
- 1234 **Application of Differential Light Scattering to the Latex Agglutination Assay for Rheumatoid Factor**
Philip Blume and Leonard J. Greenberg

II. ANALYTICAL SYSTEMS

- 1238 **Potential for Clinical Use of the Analytical Laser Microprobe for Element Measurement**
David Glick and Kenneth W. Marich
- 1245 **An Analytical System for Rapid Separation of Tissue Nucleotides at Low Pressure on Conventional Anion Exchangers**
Joseph X. Khym
- 1253 **Stable Isotope Radiometer—Multiple Ion Detector Unit for Quantitative and Qualitative Stable Isotope Studies by Gas Chromatography—Mass Spectrometry**
Peter D. Klein, Joseph R. Haumann, and David L. Hachey

- 1258 **High-Speed Quantitative Karyotyping by Flow Microfluorometry**
J. W. Gray, A. V. Carrano, D. H. Moore II, L. L. Steinmetz, J. Minkler, B. H. Mayall, M. L. Mendelsohn, and M. A. Van Dilla

- 1263 **Making Enzymatic Methods Optimum for Measuring Compounds with a Kinetic Analyzer**
John G. Atwood and Joseph L. DiCesare
- 1270 **Computerized Multicuvette System for Single Substance and Group Analyses and for the Chromatographic Isolation and Quantitation of Compounds in Complex Mixtures**
Per Vestergaard and Alvin Bachman
- 1277 **New Instrument for Rapid Determination of Activities of Lactate Dehydrogenase Isoenzymes**
Johannes Everse, Richard M. Reich, Nathan O. Kuplan, and W. Donald Finn

III. APPLICATIONS AND EXPERIMENTAL RESULTS

- 1282 **Clinical Applications of Gas Chromatograph/Mass Spectrometer/Computer Systems**
Majorie G. Horning, Jean Nowlin, Carla M. Butler, Khing Lertratanangkoon, Kathleen Sommer, and Reba M. Hill
- 1288 **Coagulation-Time Determination with Automatic Multi-variable Analysis, by Use of a Miniature Centrifugal Fast Analyzer**
W. D. Bostick, M. L. Bauer, J. M. Morton, and C. A. Burtis
- 1294 **Gas-Chromatographic and Mass-Spectrometric Detection of Low-Molecular-Weight Aliphatic Alcohols in Urine of Normal Individuals and Patients with Diabetes Mellitus**
Hartmut M. Liebig, Ossama Al-Babbili, Albert Zlatkis, and Kyoung Kim
- 1297 **A Flow-System Multiangle Light-Scattering Instrument for Cell Characterization**
G. C. Salzman, J. M. Crowell, C. A. Goad, K. M. Hansen, R. D. Hiebert, P. M. LaBauve, J. C. Martin, M. L. Ingram, and P. F. Mullaney
- 1305 **Adaptation of a T_3 -Uptake Test and of Radioimmunoassays for Serum Digoxin, Thyroxine, and Triiodothyronine to an Automated Radioimmunoassay System—"Centria"**
Gerhard Erlingshausen, Stephen I. Shapiro, Gerald Green, and George Zborowski
- 1314 **Liquid-Chromatographic Analysis for Neutral Carbohydrates in Serum Glycoproteins**
John E. Mrochek, Stanley R. Dinsmore, and T. Phillip Waalkes
- 1323 **Application of Electron Spin Resonance to Determination of Serum Drug Concentrations**
Mark R. Montgomery, Jordan L. Holtzman, and Richard K. Leute
- 1329 **Identification of Some Abnormal Metabolites in Plasma from Uremic Subjects**
Frederick W. Bultitude and Simon J. Newham

1335 CUMULATIVE INDEX, VOLS. 1-18

LETTERS

- 1343 **Does Alkaline Phosphatase Affect Serum Creatine Kinase Values?**
John Wearne, Robert W. Moore, and Brigitte Caplan
(Reply)
Rudolph G. Mueller
- 1343 **Prolonged Illness and Creatine Kinase Activity**
J. Frohlich
- 1344 **Worldwide Reference Methods**
J. Paul Cali
- 1344 **Improved Measurement of Plasma Renin Activity and Concentration**
John Latta
- 1345 **Hazards of o-Toluidine**
Andris Indriksons
- 1345 **Serum Ribonuclease Activity in Multiple Myeloma**
Anastasios Kalofoutis and Gérard Jullien
- 1346 **Precolumn Methylation of Phenobarbital with Trimethyl-anilinium Hydroxide**
R. N. Gupta and P. M. Keane
- 1347 **How Best to Diagnose Heart Disease from Enzyme Measurements?**
William H. Lederer and Harry L. Gerstbrein

BOOK REVIEWS

- 1348 William H. C. Walker, Donald S. Young, Vernon C. Stevens, J. Stanton King, William R. Nelson and Samuel Natelson, John A. Lott, and J. I. Routh
- 1352 **THE CLINICAL CHEMIST** (including program of educators' conference)
J. S. King

SEPTEMBER

- 1357 **OPINION: Quality Assurance in Health Care: Missions, Goals, Activities**
Russell J. Eilers
- 1365 **OPINION: Concepts for the Rational Selection of Assays to Be Used in Monitoring Therapeutic Drugs**
Mario Werner, Earl W. Sutherland, III, and Fred P. Abramson
- 1372 **Kinetic Determination of Glucose with the GEMSAEC (ENI) Centrifugal Analyzer by the Glucose Dehydrogenase Reaction, and Comparison with Two Commonly Used Procedures**
Rudolf A. Lutz and Jürg Flückiger
- 1378 **Simultaneous Detection of Morphine and Barbiturates in Urine by Radioimmunoassay**
M. Usategui-Gomez, J. E. Heveran, R. Cleland, B. McGhee, Z. Telischak, T. Awdziej, and E. Grunberg
- 1383 **Determination of Phosphodiesterase I Activity in Human Blood Serum**
Ivo Hynie, Mary Meuffels, and Wojciech Janusz Poznanski
- 1388 **Thyroid-Function Tests in Diphenylhydantoin-Treated Patients**
Melvin R. Stjernholm, Robert N. Alsever, and Merritt C. Rudolph
- 1393 **Influence of Age, Sex, and Oral Contraceptives on Human Blood Cholinesterase Activity**
Frederick R. Sidell and Andris Kaminskis
- 1396 **Trend Detection in Control Data: Optimization and Interpretation of Trigg's Technique for Trend Analysis**
George S. Cembrowski, James O. Westgard, Arthur A. Eggert, and E. Clifford Toren, Jr.
- 1406 **Solid-Phase Radioimmunoassay of Thyroxine in Untreated Serum**
John Seth, Frederick J. Rutherford, and Ian McKenzie
- 1414 **Erythrocyte 2,3-Diphosphoglycerate as Related to Diabetes and Obesity**
Anastasios Kalofoutis, Gérard Jullien, Antonios Koutselinis, and Constantinos Miras
- 1416 **Use of Reference Method for Determination of Serum Calcium in a Quality-Assurance Survey**
John F. Pickup, Malcolm J. Jackson, E. Margaret Price, Michael J. R. Healy, and Stanley S. Brown
- 1422 **Kinetic Enzymatic Method for Determining Serum Creatinine**
Gerald A. Moss, Richard J. L. Bondar, and Diane M. Buzzelli
- 1427 **Colorimetric, Enzymatic, and Liquid-Chromatographic Methods for Serum Uric Acid Compared**
W. David Staunwhite, Lawrence A. Pachla, David C. Wenke, and Peter T. Kissinger
- 1430 **New System for Automated Extraction and Simultaneous Determination of Serum Cholesterol and Triglycerides**
Dorothy F. Wease, Eli S. Espinosa, and Yvonne J. Anderson
- 1437 **Quantitative Method for Estimating Fecal Amino Acids**
Christopher W. I. Owens and Walfredo Padovan
- 1441 **Critical Assessment of Phospholipid Measurement in Amniotic Fluid**
Linda P. Badham and Howard G. J. Worth
- 1446 **Optimum Kinetic Enzymatic Procedures for Glucose and Triglycerides in Plasma and Serum**
Joseph L. DiCesare
- 1454 **Modification of the Fiske and Subbarow Method for Total Phospholipid in Serum**
Herbert K. Naito
- 1457 **Some Theory of Reference Values. I. Stratified (Categorized) Normal Ranges and a Method for Following an Individual's Clinical Laboratory Values**
Eugene K. Harris
- 1465 **Automated Immunochemical Method for Determination of Urinary Protein of Plasma Origin**
Lawrence M. Killingsworth, Carol E. Britain, and Linda L. Woodard
- 1469 **Simplified Photometric Copper-Soap Method for Rapid Assay of Serum Lipase Activity**
James F. Myrtle and Wilbert J. Zell
- 1474 **Rapid, Specific Assay for Plasma Cortisol by Competitive Protein Binding**
Paul M. Keane, Judith Stuart, Jean Mendez, Sandra Barbadoro, and William H. C. Walker
- 1479 **Fluorometric Serum Lipase Assay: Evaluation of Monodecanoyl Fluorescein as Substrate**
Bernard Klein and Fontaine Standaert
- 1486 **Gas Chromatographic/Thin-Layer Chromatographic Analysis of Acetylated Codeine and Morphine in Urine**
Naresh C. Jain, Thomas C. Sneath, Robert D. Budd, and Wai J. Leung
- 1490 **Rapid Estimation of Hemoglobin A₂ without Chromatography or Electrophoresis**
Leo G. Morin

- 1493 **Centrifugal Analyzer Determination of Ascorbate in Serum or Urine with Fe³⁺/Ferrozine**
William C. Butts and Harold J. Mulvihill
- 1498 **Iodination of Morphine and Dihydromorphine, as Related to Radioimmunoassay**
Raymond Davis, Joanne Feldhaus, John Heveran, Richard Wicks, and Maria Peckham
- 1506 **Clinical Determination of Methemalbumin**
Scott F. Andres, Thomas J. Kregoski, Charles F. Frey, Ramon R. Joseph, and Daisy S. McCann

SCIENTIFIC NOTES

- 1511 **Evaluation of the ABA-100 Procedure for Total and Direct Bilirubin in Serum or Plasma**
Clair Jaberg, Kay McConnell, Joseph L. Potter, and Marvin S. Platt
- 1513 **Evaluation of an Automated Glucose-Oxidase Procedure**
Jose A. Rodriguez-Castellon, C. Andrew Robinson, Mary S. Smith, and Joyce H. Frye
- 1515 **Lack of Significant Effect of L-(+)-Glutamate on Serum γ -Glutamyltransferase Activity Determined in the Presence of Glycylglycine**
Willie Gerhardt, Paul Persijn, and Sidney B. Rosalki
- 1518 **Ultraviolet Spectrophotometry of Theophylline in Plasma in the Presence of Barbiturates**
Peter Jatlów
- 1520 **Double-Antibody Radioimmunoassay of Serum Insulin: Effect of Use of Hormone-Depleted Human Serum**
Cynthia K. Silbert and Clark T. Sawin
- 1523 **Indirect Assessment of Hydroxymethylglutaryl-CoA Reductase (NADPH) Activity in Liver Tissue**
A. Venugopala Rao and S. Ramakrishnan

SELECTED METHOD

- 1526 **Colorimetry of Serum Cholesterol with Use of Ferric Acetate/Uranyl Acetate and Ferrous Sulfate/Sulfuric Acid Reagents**
David H. Jung, Homer G. Biggs, and Wells R. Moorehead

SPECIAL REPORT

- 1531 **NCCLS and Voluntary Consensus Standards for the Clinical Laboratory**
Nathan Gochman

LETTERS

- 1536 **On Kinetic Equations for the Cholesterol-Sulfuric Acid Reaction**
Henry F. M. Chung
(Reply)
Harry Pardue
- 1538 **Detection of Ecgonine in Urine**
James M. Moore
- 1540 **More Sensitive Mechanized Determination of Urea Nitrogen**
Calvin Bandt, Richard Rafoth, and Gerald Onstad
- 1542 **Use of the ABA-100 in End-point Procedures**
June D. Boyett and Myrton F. Beeler
- 1542 **A Modest PROPOSAL: Specifying Sensitivity**
Joseph H. Boutwell, Jr.
- 1542 **Metal Carcinogenesis**
Arthur Furst
- 1544 **Use of Reagent Tablets for Assay of Three Enzymes**
George G. Guilbault and E. Bernd Rietz
- 1546 **Journal Rules Violated?**
Harold Grady and David Voshall
- 1548 **More Economical γ -Glutamyltransferase Assay**
Ian F. Tarbit
- 1548 **Gas-Chromatography of Anticonvulsant Drugs, with No Solvent Evaporation**
W. A. Joern

BOOK REVIEWS

- 1553 **H.-D. Gruemer, Dean S. Skelley, Thomas A. Rejent, Max M. Friedman, and Paul Hamilton**

- 1559 **THE CLINICAL CHEMIST**
J. S. King

OCTOBER

- 1567 **Single-Channel AutoAnalyzer Adapted for Multiple Tests without Manifold Changes**
Z. K. Shihabi
- 1572 **Determination of Na⁺ and K⁺ in Urine with Ion-Selective Electrodes in an Automated Analyzer**
Amir Pelleg and Gabor B. Levy

- 1575 Manual and Semi-Automated Procedures for Measurement of Triglycerides in Serum**
Joseph L. Giegel, Anna Bell Ham, and William Clema
- 1582 Measurement of Spectral Bandwidth, as Exemplified with the Beckman "Enzyme Analyzer System TR Spectrophotometer"**
Richard B. Passey, Ronald L. Gillum, and John B. Fuller
- 1585 Effects of Buffers on Aspartate Aminotransferase Activity and Association of the Enzyme with Pyridoxal Phosphate**
Robert Rej and Raymond E. Vanderlinde
- 1592 Correlation of Selected Serum Constituents: 1. Inter-Individual Variation and Analytical Error**
Per Winkel, Bernard E. Statland, Henning Bokelund, and Eugene A. Johnson
- 1601 Chromatographic and Electrophoretic Separation of Creatine Kinase Isoenzymes Compared**
Gifford Lum and Arthur L. Levy
- 1605 Fluorometric Enzymatic Determination of Total Cholesterol in Serum**
Hua-shan Huang, Jui-chang W. Kuan, and George G. Guilbault
- 1609 Simple, Highly Selective Screening Method for Barbiturates in Urine**
František Pehr
- 1612 New Manual and Automated Method for Determining Activity of Creatine Kinase Isoenzyme MB, by Use of Dithiothreitol: Clinical Applications**
Parinam S. Rao, James J. Lukes, Stephen M. Ayres, and Hiltrud Mueller
- 1619 Reaction-Rate Assay of Serum Sorbitol Dehydrogenase Activity at 37 °C**
Clive I. Rose and Arthur R. Henderson
- 1627 Improved Method for Enzymatic Determination of Serum Triglycerides**
Joachim Ziegenhorn
- 1630 Specificity of Oxidation of Bile-Salt Hydroxyl Groups by Crude Extracts of *Pseudomonas Testosteroni* (ATCC 11996) Used in Determining Bile Salts**
William T. Beher and Grace J. Lin
- 1632 Simple, Sensitive Method for Measuring Plasmin and Plasminogen Activity in Plasma**
Tetsuo Uete, Noriko Shimano, and Mamiko Morikawa
- 1638 Fluorometric Determination of "Albumin-Titratable Bilirubin" in the Jaundiced Neonate**
Susan B. McCluskey, G. N. B. Storey, G. K. Brown, D. G. More, and W. J. O'Sullivan
- 1644 Parallel Radioimmunoassay for Plasma Cortisol and 11-Deoxycortisol**
Michael Kao, Sandra Voina, Albert Nichols, and Richard Horton
- 1648 Patients as Their Own Controls: Use of the Computer to Identify "Laboratory Error"**
Jack H. Ladenson
- 1654 Factors Affecting Assay of Myoglobin by Complement Fixation or Immunodiffusion**
John E. Olerud and Donald L. Clark
- 1658 Therapeutic Monitoring of Anticonvulsant Drugs: Gas-Chromatographic Simultaneous Determination of Primidone, Phenylethylmalonamide, Carbamazepine, and Diphenylhydantoin**
Charles J. Least, Jr., George F. Johnson, and Harvey M. Solomon

SCIENTIFIC NOTES

- 1663 Measurement of Brain-Specific Creatine Kinase Isoenzyme Activity in Serum**
Daniel A. Nealon and Arthur R. Henderson

- 1667 Device for More Economical Standby Operation of Continuous-Flow Analyzers**
Stephen C. Wardlaw

SELECTED METHOD

- 1668 Micro-Scale Photofluorometric Determination of "Free Erythrocyte Porphyrin" (Protoporphyrin IX)**
J. Julian Chisolm, Jr. and Dean H. Brown

CASE REPORT

- 1683 Laboratory Diagnosis of Bence Jones Proteinuria in a Patient with Plasma Cell Leukemia**
Chiman Chow, Ph.D., and Ralph W. Spitzer, Ph.D., M.D.

LETTERS

- 1691 Preparation of the Human Heart-specific (MB) Isoenzyme of Creatine Kinase**
Arthur L. Levy and Gifford Lum
- 1691 Specific Protein Analysis by Light-Scatter Measurement with a Miniature Centrifugal Fast Analyzer**
Mogens Blom and Niels Hjerne
- 1691 Leakage of Radioactivity through Polyethylene Tubes**
M. Kuhn and F. Naftolin
- 1692 Precision of Urinary Oxalate Determination**
H. Baadenhuijsen
(Reply)
R. Menaché
- 1696 THE CLINICAL CHEMIST**
J. S. King

NOVEMBER

- 1709 GUEST EDITORIAL: Clinical Chemistry—A Changing Discipline**
Poul Astrup
- 1716 Colorimetric Measurement of Ornithine Carbamoyl Transferase Activity in Plasma, and Results for a Supposedly Healthy Population**
Alain Bagrel, Gerard Museur, and Gérard Siest
- 1721 More Sensitive Automated Detection of Polyamines in Physiological Fluids and Tissue Extracts with o-Phthalaldehyde**
Laurence J. Marton and Patrick L. Y. Lee
- 1725 Simplified Scatchard-Plot Assay for Estrogen Receptor in Human Breast Tumor**
Roy B. Johnson, Jr., Robert M. Nakamura, and Rose Mary Libby
- 1731 Evaluation of Kinetic Light Scattering as an Approach to the Measurement of Specific Proteins with the Centrifugal Analyzer. I. Methodology**
Gregory J. Buffone, John Savory, R. E. Cross, and J. E. Hammond
- 1735 Evaluation of Kinetic Light Scattering as an Approach to the Measurement of Specific Proteins with the Centrifugal Analyzer. II. Theoretical Considerations**
Gregory J. Buffone, John Savory, and J. Hermans
- 1747 Continuous Determination of the Oxygen Dissociation Curve for Whole Blood**
Luigi Rossi-Bernardi, Massimo Luzzana, Michele Samaja, Mari Davi, Daniela DaRiva-Ricci, Jolanda Minoli, Brian Seaton, and Robert L. Berger
- 1754 Evaluation of Trinder's Glucose Oxidase Method for Measuring Glucose in Serum and Urine**
John A. Lott and Kathie Turner
- 1761 Enhancing Effect of Surfactant and Protein on Hydrolysis of Thymolphthalein Monophosphate by Purified Prostatic Acid Phosphatase**
Andras G. Foti, Harvey Herschman, J. Fenimore Cooper, and Hedi imFeld
- 1766 Enzymatic Immunoassay vs. Gas/Liquid Chromatography for Determination of Phenobarbital and Diphenylhydantoin in Serum**
Harold E. Booker and Barbara A. Darcey
- 1769 Scatchard Plot and Heterogeneity in Binding Affinity of Labeled and Unlabeled Ligand**
H. J. G. Hollemans and R. M. Bertina
- 1774 Plasma Theophylline Concentrations Measured by High-Pressure Liquid Chromatography**
Daniel S. Sitar, Kenneth M. Pfafsky, Robert E. Rangno, and Richard I. Ogilvie
- 1777 Hepatic Synthesis of Canavaninosuccinate from Ureidohomoserine and Aspartate, and its Conversion to Guanidininosuccinate**
Anthony Koller, Lois Aldwin, and Samuel Natelson

- 1783 **Fluorometric Determination of δ -Aminolaevulinic Dehydratase Activity in Human Erythrocytes as an Index to Lead Exposure**
Saroj K. Chakrabarti, Jules Brodeur, and Robert Tardif
- 1788 **Fluorometric Method for Measuring Serum Lipase Activity**
Bernd Rietz and George G. Guilbault
- 1791 **Fluorometric Assay of Serum Acid or Alkaline Phosphatase, Either in Solution or on a Semisolid Surface**
Bernd Rietz and George G. Guilbault
- 1795 **Screening for Albuminuria: A Case for Estimation of Albumin in Urine**
E. BenGershom

SCIENTIFIC NOTES

- 1799 **Semi-Solid Surface Fluorometric Analysis of Glucose**
Shiow-ling W. Kiang, Jui-chang W. Kuan, and George G. Guilbault
- 1801 **Negligible Interference by Spirinolactone and Prednisone in Digoxin Radioimmunoassay**
Richard Ravel
- 1803 **Screening for Drug Abuse: Use of NaCl to Increase Drug Recovery from Papers Coated with Ion-Exchange Resin**
George J. Alexander
- 1805 **Direct Radioimmunoassay for Unconjugated Estradiol in Pregnancy Serum, with Use of a Radiolabeled Derivative of Estradiol**
Carol A. Miller, Marion C. Fetter, and Robert C. Boguslaski
- 1810 **Sodium Iodoacetate as an Antiglycolytic Agent in Blood Samples**
Edward P. Marbach, Monty McLean, Marilyn Scharn, and Tom Jones
- 1812 **An Example of Lyophilized Protein-Based Materials Not Simulating Patient Sera**
Bernard W. Steele, Donald F. Koehler, Thomas P. Blaszkowski, and Miguel Azar

SELECTED METHODS

- 1815 **Radioimmunoassay of Digoxin and Digitoxin**
Henry R. Besch, Jr. and August M. Watanabe
- 1830 **Preparation and Use of Human Serum Control Materials for Monitoring Precision in Clinical Chemistry**
George N. Bowers, Jr., Robert W. Burnett, and Robert B. McComb

CASE REPORT

- 1837 **Abnormal Electrophoretic Mobility of a Creatine Kinase MM Isoenzyme**
Kimberly Velletri, William C. Griffiths, and Israel Diamond, M.D.

SPECIAL REPORT

- 1839 **Pollution Control and Suggested Disposal Guidelines for Clinical Chemistry Laboratories**
Desider A. Pragy

LETTERS

- 1845 **Are Optimum Conditions Routinely Necessary in Enzyme Assay?**
R. L. Foster and P. A. Entwistle
- 1845 **Important to Separate Creatine Kinase Isoenzyme BB?**
Adrienne Clare Byrnes and Sheldon Alter
(Reply)
Philip D. Henry, Robert Roberts, and Burton E. Sobel
- 1846 **A Direct Thermochemical Approach to the Digitoxin/Albumin Interaction**
Axel Brock
- 1846 **Comparative Merits of Techniques for Barbiturate Detection in Urine**
Laszlo R. Treiber
- 1848 **Improved Determination of "True" Creatinine in Serum or Plasma**
Hippocrates Yatzidis
- 1848 **Creatine Kinase Isoenzyme MB and Heart Disease**
Robert S. Galen and S. Raymond Gambino
- 1850 **Difference in Extractability of Porphyrins from Blood of Anemic Persons**
Alvar Loria and Eric Dillmann
- 1852 **Use of a Charcoal Cartridge in Isolating Basic Drugs from Urine**
K. Wayne Hindmarsh, Neil W. Hamon, and Donald F. LeGatt
- 1854 **Comparison of Two Commercially Available Amylase Kits: Amylotebe and Amylochrome**
Robert C. Elser

BOOK REVIEWS

- 1858 **Merle A. Evenson, Morton K. Schwartz, Donald S. Young, and Samuel Meites**

- 1858 **THE CLINICAL CHEMIST**
J. S. King

- 1873 **EDITORIAL: Current Concepts of "Normal Values," "Reference Values," and "Discrimination Values" in Clinical Chemistry**
F. William Sunderman, Jr.

- 1876 **Radioimmunoassay of Methaqualone and Its Monohydroxy Metabolites in Urine**
Ann R. Berman, James P. McGrath, Robert C. Permisohn, and James A. Cella

- 1882 **Separation of Synthetic Mixtures of Sugars and of Sugars in Body Fluids with a High-Resolution Carbohydrate Analyzer**
Wolfgang Voelter and Hermann Bauer

- 1887 **Diagnosis of Type III Hyperlipoproteinemia by Chromatography of Plasma Lipoproteins on Columns Containing Agarose**
James Shepherd, Christopher J. Packard, Frances J. Dryburgh, and Jane L. H. C. Third

- 1892 **Gas-Chromatographic/Mass-Spectrometric Identification and Quantitation of Tetrone and Deoxytetrone Acids in Urine from Normal Adults and Neonates**
John A. Thompson, Sanford P. Markey, and Paul V. Fennessey

- 1899 **Fluorometric Assay for N-Acetylprocainamide**
Edward Matusik and Thomas P. Gibson

- 1903 **Immunofluorescence Method for Detecting Anti-Myocardial Antibodies, and Its Use in Diagnosing Heart Disease**
Stanley L. Twomey and George E. Burnett

- 1907 **Factors Influencing Evaporation from Sample Cups, and Assessment of Their Effect on Analytical Error**
C. A. Burtis, J. M. Begovich, and J. S. Watson

- 1918 **Gas-Chromatographic Analysis for Cocaine in Human Plasma, with Use of a Nitrogen Detector**
Peter I. Jatlow and David N. Bailey

- 1922 **Comparison of Commercial Kits for Radioimmunoassay: III. Radioassay of Serum Folate**
Norman P. Kubasik, Michael T. Volosin, and Harrison E. Sine

- 1927 **Relative Efficacy of Separation of "Free" and "Bound" [3',5'-³H]Pteroylglutamate by Charcoal Coated with Various Materials**
Alfred Zetner and Peggy E. Duly

- 1932 **Rapid Kinetic Measurement of Lactate in Plasma with a Centrifugal Analyzer**
Michael A. Pesce, Selma H. Bodourian, and John F. Nicholson

- 1935 **Accurate Estimation of Standard Deviations for Quantitative Methods Used in Clinical Chemistry**
Robert W. Burnett

- 1935 **A Systematic Approach to Enzyme Assay Optimization, Illustrated by Aminotransferase Assays**
Jack W. London, Leslie M. Shaw, Donald Fetterolf, and David Garfinkel

- 1953 **Identification of Human Hemoglobins by Use of Isoelectric Focusing in Gel**
John A. Koepke, James F. Thoma, and Robert M. Schmidt

- 1956 **Gas-Chromatographic Measurement of Codeine and Norcodeine in Human Plasma**
Mary K. Brunson and J. Frank Nash

- 1961 **Temporal Intrapersonal Physiological Variability of Cholinesterase Activity in Human Plasma and Erythrocytes**
Frederick R. Sidell and Andris Karinskas

- 1964 **5-Decynedioic Acid, an Acetylenic Compound in Human Urine**
Sven Lindstedt and Goran Steen

- 1970 **Sex-Related Patterns in the Profiles of Human Urinary Amino Acids**
Henri Dirren, Arthur B. Robinson, and Linus Pauling

- 1976 **Fluorometric Screening Method for Detecting Benzodiazepines in Blood and Urine**
James C. Valentour, Joseph R. Monforte, Beverly Lorenzo, and Irving Sunshine

SCIENTIFIC NOTES

- 1980 **Improved High-Resolution High-Voltage Paper Electrophoresis System for Use in Screening for Aminoacidopathies**
A. M. Spiekerman, Melvin E. Hetherly, and Frank F. Hall

- 1983 **Faster Enzymatic Procedure for Serum Triglycerides**
Eric J. Sampson, Laurence M. Demers, and Arthur F. Krieg

- 1986 **Use of the Carbon Rod Atomizer for Analysis of Lead in Blood: Three Methods Compared**
Michael T. Volosin, Norman P. Kubasik, and Harrison E. Sine

CORRECTIONS

SELECTED METHOD

- 1988 **Measurement of Total Alkaline Phosphatase Activity in Human Serum**
George N. Bowers, Jr. and Robert B. McComb

CASE REPORT

- 1996 **Rapid, Simplified Diagnosis of Cystinosis in Conjunctival Biopsies**
Joseph L. Potter, M.D., Ph.D., Alfred Nicely, M.D., and Robert A. Burnstine, M.D.

HISTORY

- 1998 **The Double Pelican (A Cautionary Tale)**
George F. Grannis

LETTERS

- 2000 **Evaluation of the Oxford Titra-Chem, an Instrument for the Determination of Bicarbonate, Calcium, and Chloride in Serum**
Patrick A. Roche and Charles Bishop
- 2002 **Disadvantages of the Sequential Saturation Method**
J. J. Pratt
(Reply)
Alfred Zettner
- 2004 **Hepatitis-Contaminated Control Sera**
Alan L. Portnoy

- 2004 **Another View on Lipoprotein Electrophoresis**
Nicholas M. Papadopoulos
(Reply)
Richard M. Iammarino

BOOK REVIEWS

- 2011 Gerald R. Cooper

- 2012 **THE CLINICAL CHEMIST**
J. S. King

- 2019 **INVITED REVIEWERS, 1975**

ANNUAL INDEX, Volume 21, 1975

- 2021 **Contents**
- 2032 **Author**
- 2042 **Subject**

clinical chemistry

Volume 21, 1975

AUTHOR INDEX

- Abdullah, J. Sh.; Gowland, E. 969
Abraham, E. C.; Huisman, T. H. J.; Schroeder, W. A., 999
Abrahams, D. See Kellen, J. A.
Abramson, Fred P. See Werner, Mario
Abul-Fadl, M. A. M.; El-Beahiri, Nadia; Mousa, A. H.; Taher, Y., 1026
Acheampong-Mensah, D.; Feuer, G., 960
Adams, R. F. See Vandemark, F. L.
Addanki, S., 943
Adlercreutz, Herman; Peltonen, Veikko; Voipio, Tauno, 676
Agarwal, D. P.; Srivastava, L. M.; Goedde, H. W., 1019
Ahlquist, David Alan; Schwartz, Samuel, 362
Ahlwalia, G. S.; Kuczala, Z. J., 270
—; Kuczala, Z. J.; Lam, D. P., 966, 1001
—; Kuczala, Z. J., 1010
—; Kuczala, Z. J., 1012
Ahuja, S. See Fingerhut, B.
Akai, F. See Nakata, Y.
Akerkar, A. S.; Ali, A.; Rutner, H., 993
—; Rutner, H., 1030
Al-Babbili, Ossama See Liebich, Hartmut M.
Albani, Michael See Toseland, Patrick A.
Aldwin, Lois See Koller, Anthony
Alexander, George J., 1803
Ali, A. See Akerkar, A. S.
Ali, M.; Brownstone, Y. S., 983
Allah, A. S. Khalaf; Farag, A.; Kotb, N., 972
Allan, J. D. See McFarlane, H.
Allen, R. H. See Weatherburn, M. W.
Allerhand, J. See Burnett, A.; McCarrick, J.
Alpert, Nelson L., 782
Alsever, Robert N. See Stjernholm, Melvin R.
Alter, Sheldon See Byrnes, Adrienne Clare
Amir, E. See Herzberg, M.
Amitsani, K.; Ono, K.; Sakamoto, Y.; Nakata, Y., 1025
Amoroso, June See Saifer, Abraham
Amrani, J. See Clejan, S.
amsoc, Klavs See Winkel, Per
Anand, V. D. See Krause, R. D.
Anand, Vir D.; White, James M.; Nino, Hipolito V., 595
Andersen, Ivar See Zachariassen, Hans
Anderson, C. Thomas, Jr. See Evenson, Merle A.
Anderson, Gerald Harvey; Jeejeebhoy, K. N.; Bryan, M. H., 930
Anderson, K. M.; Doherty, P., 987
—; Kadohama, N., 987
—; Chance, H. C.; Kadohama, N., 1026
Anderson, Peter H.; Fukushima, Kimiko; Schiller, Harvey S., 708
Anderson, Yvonne J. See Wease, Dorothy F.
Andres, Scott F.; Kregoski, Thomas J.; Frey, Charles F.; Joseph, Ramon R.; McCann, Daisy S., 1506
Andrews, D. J. See Scott, P.
Anthony, William L. See Hsu, Jeng M.
Applegarth, D. A.; Davidson, A. G. F.; Perry, T. L.; Poon, S.; Crichton, J. U.; Hardwick, D. F., 950
—; Ross, P. M., 1036
Applegarth, Derek A.; Kleiman, Betty; Singh, Parminder, 1040
Ardrey, Robert S., II; Bishop, Charles, 954
Ariens, E. J., 930
Armandi, Arlene E. See McIntyre, Joyce A.
Armstrong, D. See Solomons, C.
Armstrong, Donald; VanWormer, Dale; Solomons, Clive C., 104
Aronson, Frank L. See Kesner, Leo
Asato, Noritake; van Soestbergen, Maria; Sunderman, F. William, Jr., 521
Astrup, Poul, 939, 1709
Atkin, G. E. See Scott, P.
Atkinson, A. R. See Norris, K. A.
Atkinson, Alan R. See Norris, Kenneth A.
Atkinson, Earl E., Jr. See Waterman, Cleveland S.
Atkinson, K. F., 976
Atkinson, M. See Durbridge, T.
Atwood, J. G. See DiCesare, J. L.
Atwood, John G.; DiCesare, Joseph L., 1263
Auld, David S. See Kawaguchi, Hiroshi
Awdziej, T. See Usategui-Gomez, M.
Azer, A.; Zaidman, J. L.; Gershuni, D. H.; Scharf, S.; Hartstein, E.; Iaffe, D., 1033
Ayer, V. See Neeley, W. E.
Ayres, Stephen M. See Rao, Parinam S.
Azam, L. See McFarlane, Hylton
Azar, Miguel See Steele, Bernard W.
Baadenhuijsen, H.; Menache, R., 1692
Baba, S.; Otsuki, M.; Saeki, S.; Yuu, H.; Kondo, T., 948
Bacchus, R. A.; Yeoman, D. K.; McGuigan, Elizabeth; Lowy, Clara; Prunty, F. T. G., 960
Bachman, Alvin See Vestergaard, Per
Badham, Linda P.; Worth, Howard G. J., 1441
Bagrel, Alain; Museur, Gerard; Siest, Gerard, 1716
Bahler, R. C. See Oppl, Jan J.
Bailey, David N. See Jatlow, Peter I.
Bain, J. See Clapp, J. J.
Baines, A. D. See Wong, J. H.
Bakay, Bohdan, 1212
Balabaskaran, S.; Ganendran, A., 1020
Balis, J. U. See Pagast, P.
Bandt, Calvin; Rafoth, Richard; Onstad, Gerald, 1540
Barbadoro, Sandra See Keane, Paul M.
Barbier, Fabrice See Versieck, Jacques
Barr, M. See Engelhardt, A.; Novrit, B.
Barrett, D. A., II See Feld, R. D.
Barrett, M. J. See Wilson, C. S.
—; LeMat, B.; Chow, S., 1011
—; Clarkson, K., 1029
Bartholomew, R. J., 970
Barton, Richard See Zachariassen, Hans
Batayias, George E. See Raisinghani, Kanaya H.
Bates, Roger G. See Mohan, M. S.
Batra, K. K. See Haider, M.; Nelson, John W.
—; Haider, M.; Gross, D., 1029
Batt, A. M. See Galteau, M. M.
Battistone, G. C. See Rubin, Martin
Bauer, Herman See Voelter, Wolfgang
Bauer, M. L. See Bostick, W. D.
Bauer, S.; Lee, H., 1006
Baulieu, Etienne-Emil, 924
Bavda, L. T. See Kochhar, M. M.
Bayse, David See Duncan, Patricia H.
Bayse, David D. See Doumas, Basil T.
Beach, Douglas J. See Sleeman, H. Kenneth
Beal, Rita See Lott, John A.
Beaulieu, S. See Letellier, G.
Becker, M. See Doumas, B. T.
Beckloss, Stan See Miller, William W.
Bedard, John F., Jr. See Trafton, John E.
Bedford, B. D. K.; Shepherd, J., 1022
Beeler, Myrton F. See Boyett, June D.; Schosinsky, Karl H.
Begovich, J. M. See Burtis, C. A.
Behr, William T.; Lin, Grace J., 1630
Beisel, W. R. See Pekarek, Robert S.
Belfiore, Francesco; Borzi, Vito; Vecchio, Luigi L.; Napoli, Elena; Rabuazzo, Agata M., 880
Bell, C. Elliott, Jr. See Ladenson, Jack H.
Belli, L. See Flichman, J. C.
Belonje, Bartholomeus See Momcilovic, Berislav
Belton, N. R.; Cockburn, F.; Forfar, J. O.; Giles, M. M.; Stephen, R., 951
Benes, P. See Oertel, G. W.
BenGershom, E., 1795
Berger, Robert L. See Rossi-Bernardi, Luigi
Berk, Paul D. See Rodkey, F. Lee
Berlet, H. H.; Weinhardt, F., 973
Berlin, Alexander See Lauwerys, Robert
Berman, Ann R.; McGrath, James P.; Permisohn, Robert C.; Cella, James A., 1878
Bernett, A.; Allerhand, J., 944
Bernett, G. E. See Twomey, S. L.
Bernett, George E. See Miller, William W.; Twomey, Stanley L.
Bernstein, M. See Frohlich, M.
Bern, E. See Gutmann, I.; Roschlau, P.
—; Stahler, F.; Persijn, P., 996
Besch, Henry R., Jr.; Watanabe, August M., 1815
Besch, N. F. See Lash, B.
Bethune, V. G. See Fleisher, M.
Bhargava, A. K. See Killian, C. S.
Bhot, H. G. See Miller, W. Greg
Bhushan, R. See Kochhar, M. M.
Bielecki, K. See Klopocki, T.
Biggs, H. G. See Moorehead, W. R.
Biggs, Homer See Jung, David
Biggs, Homer G. See Doumas, Basil T.; Jung, David H.
—; Erikson, John M.; Moorehead, Wells R., 437
—; Ledyard, Peggy; Kasper, Steve, 449
Bircher, J. See Colombo, J. P.
Bishop, Charles See Ardrey, Robert S., II; Roche, Patrick A.; Weissman, Earl B.
Black, John C.; Furman, William B., 774
Blackburn, G. L. See Platt, Jean-Pierre
Bladed, Walter J.; Uhl, James M., 119
Blakemore, J. See Ullman, E. F.
Blaker, Robert G. See Hibrawi, Hazem
Blass, K. G.; Thibert, R. J., 1023
Blaskowski, Thomas P. See Steele, Bernard W.
Blattler, D. P.; Ibbott, F. A., 980
Blend, Michael J.; Ferry, J. Douglas, 966
Blom, M.; Hjorne, N.; Dyerberg, J., 1021
Blom, Mogens; Hjorne, Niels, 195
—; Hjorne, Niels, 1691

- Blume, P.; Gray, E. D.; Greenberg, L. J., 1017
 Blume, Philip; Greenberg, Leonard J., 1234
 Bodourian, S. H. See Pesce, M. A.
 Bodourian, Selma H. See Pesce, Michael A.
 Boeckx, R. L.; Fostakowsky, R.; Desjardins, P. R., 994
 Boguslaski, Robert C. See Miller, Carol A.
 Bohlender, H. See Oertel, G. W.
 Bohme, I. See Hutter, H. J.
 Bohuon, C. See Delarue, J. C.
 Bokelund, Henning See Winkel, Per
 Bolin, J. See Bowie, L.
 Bolz, Gunner See Montgomery, Mark R.
 Bond, L. W.; McComb, R. B., 1016
 Bondar, R. J. L. See Moss, G. A.
 —; Rose, T., 943
 —; Rose, T.; Moss, G. A., 988
 Bondar, Richard J. L. See Moss, Gerald A.; Rock, Robert C.
 Booker, Harold E.; Darcey, Barbara A., 1766
 Boone, D. Joe; Flanary, Phil, 979
 Born, Gordon S. See Farid, Nagy A.
 Borud, O. See Stromme, J. H.
 Borzi, Vito See Belfiore, Francesco
 Bosch, A. M. G.; van Hell, H.; Brands, J. A. M.; van Weemen, B. K.; Schuur, A. H. W. M., 1009
 Bosko, Joseph A. See Dunka, Louis J., Jr.
 Bostian, K. A. See Pekarek, Robert S.
 Bostick, W. D. See Burtis, C. A.
 —; Bauer, M. L.; Morton, J. M.; Burtis, C. A., 1288
 Bousquet, B. See Drex, C.
 Bousquet, Joseph H., Jr., 1542
 Bowers, George N., Jr. See Horder, Mogens; Lancaster, Robert G.; Mann, Lewis T., Jr.; Moore, Robert E.
 —; Burnett, Robert W.; McComb, Robert B., 1830
 —; McComb, Robert B., 1988
 Bowie, L.; Bolin, J., 971
 Bowie, L. J.; Gochman, N.; Lie, R. F., 1031
 Boyadjian, Gaydag See Whitehurst, Philip
 Boyce, Edward; Weil, Max Harry; Shubin, Herbert; Marbach, Edward P.; Michaels, Sybil, 113
 Boyd, N. See Wei, R.
 Boyd, N. J. See Rubin, Martin
 Boyd, Nigel D. See Chooi, Michael K.
 Boyett, June D.; Beeler, Myron F., 1542
 Boyle, E., Jr. See Yarmosh, D. F.
 Bradwell, A. R.; Burnett, D., 637
 Brands, J. A. M. See Bosch, A. M. G.
 Bredeken, J. E. See Frisid, K.
 Brenchley, P. See McFarlane, H.
 Breuer, L. See Kapp, S.
 Brewer, George J. See Prasad, Ananda S.
 Brewer, N. See Richmond, W.
 Britain, Carol E. See Killingsworth, Lawrence M.
 Brochet, J. C. See Siest, G.
 Brock, Axel, 1846
 Brodeur, Jules See Chakrabarti, Saroj K.
 Brody, B. B. See D'Souza, J. P.; Kubasik, N. P.
 Brotherton, M. See Soto, A. R.
 Broughton, Alan; Ross, Doris L., 186
 —; Strong, James, 968
 Brown, Dean H. See Chisolm, J. Julian, Jr.
 Brown, Eleanor S. See Kitagawa, Teruo
 Brown, G. K. See McCluskey, Susan B.
 Brown, Harold H. See Meola, John M.
 —; Meola, John M., 972
 —; Meola, John M.; Sansur, Musa; Leon, Luis P., 978
 Brown, Stanley S. See Pickup, John F.
 —; Price, E. Margaret; Dietz, Albert A.; Rubinstein, Herbert M., 1041
 Brownstone, Y. S. See Ali, M.
 Bruns, David E.; Ladenson, Jack H.; Davis, James E., 987
 Brunson, Mary K.; Nash, J. Frank, 1956
 Bryan, M. H. See Anderson, Gerald Harvey
 Buchet, Jean-Pierre See Lauwers, Robert
 Buchholz, D. H.; Donabedian, R. K., 162
 Bucolo, G. See Kim, J. C.
 Bucolo, Giovanni; Yabut, Juanito; Chang, Ting Yen, 420
 —; McCroskey, Ralph; Whittaker, Nadine, 424
 Budd, Robert D. See Jain, Naresh C.
 Buffone, G. J. See White, R. M.
 —; Heintges, M. G.; Savory, J.; Killingsworth, L., 943
 Buffone, Gregory J.; Savory, John; Cross, R. E.; Hammond, J. E., 1731
 —; Savory, John; Hermans, J., 1735
 Bukkapatnam, K. See Malkus, H.
 Bulbenko, George See Dalal, Fram R.
 Bultitude, Frederick W.; Newham, Simon J., 1329
 Bumgarner, Joseph E. See Creason, John P.
 Burch, Robert E.; Hahn, Henry K. J.; Sullivan, James F., 501
 —; Williams, Robert V.; Hahn, Henry K. J.; Jetton, Mary M.; Sullivan, James F., 568
 Burchard, U.; Peters, J. E.; Thulin, H.; Haschen, R. J., 955
 Burke, M. Desmond See Ross, Robert
 Burnett, D. See Bradwell, A. R.
 Burnett, George H. See MacKinney, Archie A., Jr.
 Burnett, Robert W. See Bowers, George N., Jr., 953, 1935
 Burns, R. See Plaut, D.
 Burnstine, Robert A. See Potter, Joseph L.
 Burtis, C. A. See Bostick, W. D.
 —; Bostick, W. D.; Johnson, W. F., 1225
 —; Begovich, J. M.; Watson, J. S., 1907
 Burtis, Carl A., 935
 Busby, M. G. See Kudirka, P. J.
 Busby, Michael G. See Kudirka, Paul J.
 —; Cottrell, David B.; Cembrowski, George S.; Toren, E. Clifford, Jr., 1175
 Busch, E.-W. See Szasz, G.
 Butler, Carla M. See Horning, Marjorie G.
 Buttner, Johannes, 932
 Buttram, V. C. See Lash, B.
 Butts, William C.; Mulvihill, Harold J., 1493
 Buzza, E.; Lillig, J.; Sternberg, J. C., 980
 Buzzelli, Diane M. See Moss, Gerald A.
 Wibbo, N. O. See Verjee, Z. H.
 Bygate, J. See McArthur, M.
 Byrnes, Adrienne Clare; Alter, Sheldon; Henry, Philip D.; Roberts, Robert; Sobel, Burton E., 1845
 Cadwell, Ruth See Dixit, Padmakar K.
 Cahill, George F., Jr., 928
 Calam, Roger R.; Grignol, G.; Murano, G.; Henry, R. L., 969
 —; Henry, R. L.; Grignol, G., 969
 Calderon-Manes, S., 983
 Cali, J. Paul, 932, 1344
 Cano, C. See Woo, J.
 Caplan, B. See Kellen, J. A.
 Caplan, Brigitte See Wearne, John
 Carey, N. See Hassemer, D.; Laessig, R.
 Carey, R. N. See Kudirka, P. J.
 —; Miller, R. C.; Westgard, J. O., 976
 —; Hewitt, T. E.; Westgard, J. O., 1000
 Carey, R. Neill See Kudirka, Paul J.
 Carlson, I. H.; Westgard, J. O.; Joiner, B. L., 966
 Carpenter, John T., Jr. See McLaren, Gordon D.
 Carrano, A. V. See Gray, J. W.
 Carter, Paul, 994
 Carvajal, H. See Passey, R. B.
 Castellanos, M. See Soto, A. R.
 Castellanos, M. E. See Soto, A. R.
 —; Chambliss, K. W.; Soto, A. R., 943
 Catalano, Edward W.; Johnson, George F.; Solomon, Harvey M., 134
 Cawley, Leo P. See Miller, William W., 934
 Cella, James A. See Berman, Ann R.; Sleeman, H. Kenneth
 Cembrowski, George S. See Busby, Michael G.
 —; Westgard, James O.; Eggert, Arthur A.; Toren, E. Clifford, Jr., 1396
 Century, B.; Natelson, S., 949
 Cha, Chung-Ja Mo; Mastrofrancesco, Balduino; Cha, Sungnam; Randall, Henry T., 1067
 Cha, Sungnam See Cha, Chung-Ja Mo
 Chakrabarti, Saroj K.; Brodeur, Jules; Tardif, Robert, 1783
 Chakrin, A. L.; Hirsch, C. A.; Rubin, M.; Sher, P. P.; Sine, H. E., 971
 Chalmers, A. R. See Thomas, D. W.
 Chalmers, L. See Weisberg, Harry F.
 Chalmers, Leslie See Dorwart, William V.
 Chambliss, K. W. See Castellanos, M. E.; Morejon, C. B.; Soto, A. R.
 Chan, Phillip C. See Kesner, Leo
 Chan, S. K. See Tan, I. K.
 Chance, Graham, 920
 Chance, H. C. See Anderson, K. M.
 Chang, J. J.; Crowl, C. P.; Schneider, R. S., 967
 Chang, Michael M.; Chung, Tai Wha, 330
 Chang, Ting Yen See Bucolo, Giovanni
 Chen, C. T. See Tamura, Z.
 Chen, J. S.; Kao, J. T., 1007
 Cheng, Hsien C. See Russell, Paul T.
 Cherian, A. G.; Hill, J. G., 964
 —; Hill, J. G., 1007
 Chernoff, E. See Flichman, J. C.
 —; Flichman, J. C.; Shiringhelli, A.; Granillo-Robles, A., 956
 Chernoff, H. N.; Richardson, K. E., 1026
 Chidsey, Charles See Weinberger, Miles
 Chilcote, M. E. See Coolen, R. B.; Lo, D. H.; Slaunwhite, W. David
 Chinh, Nguyen H.; Tarplee, S., 969
 —; Vohman, M.; Darius, Hull, E., 1022
 Chio, L. F. See Tan, I. K.
 Chisolm, J. Julian, Jr.; Brown, Dean H., 1669
 Chmiel, J. See Suszka, B.
 Chong-Kit, R. See Chow, C.; McArthur, M.
 Chooi, Michael K.; Todd, John K.; Boyd, Nigel D., 632
 Chow, C.; Wong, C.; Chong-Kit, R., 991
 Chow, Chiman; Spitzer, Ralph W., 1683
 Chow, S. See Barrett, M. J.
 Christian, Gary D. See Kumar, Anand
 Chu, T. M. See Killian, C. S.
 Chung, Henry F. M.; Pardue, Harry L.; Hewitt, Thomas E., 170
 —; Pardue, Harry, 1536
 Chung, Tai Wha See Chang, Michael M.
 Claeys, A. E. See de Sagher, R. M.
 Clain, J. See Kampa, I. S.
 Clapp, J. J.; Walfish, P. G.; Bain, J., 986
 Clark, Donald L. See Olerud, John E.
 Clarkson, K. See Barrett, M. J.
 Clayton, Kathleen J.; Fine, James S.; Strandjord, Paul E., 754
 Claywell, C. See Van Kiey, H.
 Cleeland, R. See Utague-Gomez, M.
 Clejan, S.; Rabinowitz, B.; Amrani, J.; Neufeld, H. N., 952
 —; Rabinowitz, B.; Doman, J.; Neufeld, H. N., 974
 Clema, William See Giegel, Joseph L.
 Coburn, Stephen P.; Hodges, James M.; Gruemer, H.-D., 1180
 Cockburn, F. See Belton, N. R.
 Cohen, Burton D. See Patel, Harini
 Cohen, Flossie, 935
 Colombo, J. P.; Peheim, E.; Bircher, J.; Muller, E., 996
 Colwell, J. A. See Nair, R. M. G.
 Comess, Jay D. See Koller, Anthony
 Conklin, Robert L. See MacKinney, Archie A., Jr.
 Contesso, G. See Delarue, J. C.
 Coolen, R. B.; Pragay, D. A.; Chilcote, M. E., 976
 Cooper, J. Fenimore See Foti, Andras G.
 Cooper, Teresa See Duncan, Patricia H.
 Cooreman, W. See Scharpe, S.
 Copeland, B. E. See Grisley, D. W., Jr.
 Cornell, F. N., 944
 Cosyns-Duyck, M. Cl.; De Leenheer, A. P.; Van Vaerenbergh, P. M., 1024
 Cotte, J. See Rolland, M. O.
 Cottrell, David B. See Busby, Michael G.
 —; Toren, E. Clifford, Jr.; Magnuson, Judith A.; Uddike, Stuart J., 829
 Coulter, W. See Daigneault, R.
 Cousins, C. L., 1019
 Cowan, R. A. See Grant, James K.
 Crawhall, J. C. See Itabha, K.
 —; Hsiung, M.-W.; van der Rest, M.; Glorieux, F. H., 1002
 Creason, John P.; Hinners, Thomas A.; Bumgarner, Joseph E.; Pinkerton, Cecil, 603
 Crichton, J. U. See Applegarth, D. A.
 Cross, R. E. See Buffone, Gregory J.; Hammond, J. E.; Heintges, M. G.; King, S. W.; Wentz, P. W.
 —; Heintges, M. G.; Savory, J.; Wentz, P. W., 964
 Crouch, S. R. See Lantz, R. K.
 Crowell, J. M. See Salzman, G. C.
 Crowl, C. P. See Chang, J. J.
 Cruyl, A. A. M.; De Leenheer, A. P., 1031
 Cummins, L. M.; Smith, I. D.; Mordecai, B.; Lin, H. L., 1011
 Custod, J. T.; L'Heureux, M. V., 1019
 Czorniuk, A. See Klopocki, T.; Sadowska, H.
 Daigneault, R. See Letellier, G.
 —; Letellier, G.; Miron, M.; Gagne, M.; Coulter, W.; Ozenda, D., 1005
 Dain, M. Le; Handschin, U. E.; Ritschard, W., 992
 Dakin, Terry A. See Ismail, Adel A. A.
 Dalal, Fram R.; Winsten, Seymour; Woodbridge, J. Eliot; Bulbenko, George, 969
 D'Angelo, M. See Shrivastava, K.
 Daniels, Jerry C.; Vyvial, Theona M.; Levin, William C.; Ritzmann, Stephen E., 243
 Darcey, Barbara A. See Booker, Harold E.
 DaRiva-Ricci, Daniela See Rossi-Bernardi, Luigi
 D'Ascenzo, G.; De Angelis, G.; Magri, A. D., 1032
 Dash, H. H. See Yarmosh, D. F.
 Daskam, Jeneane M. See Mueller, Ralph G.
 Date, J. See Olesen, H.
 Davi, Mario See Rossi-Bernardi, Luigi
 Davidson, A. G. F. See Applegarth, D. A.
 Davis, J. E., 1028
 —; Lewis, J. W., 1221
 Davis, James E. See Bruns, David E.
 Davis, Raymond; Feldhaus, Joanne; Heveran, John; Wicks, Richard; Peckham, Maria, 1498
 De Angelis, G. See D'Ascenzo, G.
 deBaere, Larissa; Lewis, Jean; Sing, Helen, 746
 De Broe, M. E. See Wieme, R. J.

- Dechtiaruk, Walter; Johnson, George F.; Solomon, Harvey M., 1038
- Dechtiaruk, Walter A. See Johnson, George F.
- Degiampietro, P. See Kuffer, H.
- de la Iglesia, F. A. See Feuer, G.
- Delamarie, I. W. See McFarlane, Hylton
- Delarue, J. C.; Contesso, G.; Sancho, H.; May-Levin, F.; Bohuon, C., 1010
- De Leenheer, A. P. See Cosyns-Duyck, M. Cl.; Cruyl, A. A. M.; De Ruyter, M. G. M.; de Sager, R. M.
- del Valle, O. See Soto, A. R.
- Delvin, E. E.; Glorieux, F. H., 1013
- ; Pottier, A.; Glorieux, F. H., 1014
- Demers, L. M.; Hupner, G. W., 992
- Demers, Laurence M. See Sampson, Eric J.
- Derdac, V. See Winkler, J.
- De Ruyter, M. G. M.; De Leenheer, A. P., 1031
- de Sager, R. M.; De Leenheer, A. P.; Claeys, A. E., 946
- Desaty, Darko; Green, Ruth C., 953
- Desjardins, P. R. See Boeckx, R. L.
- Detter, James C.; Gibson, Donald F.; MacMillan, Stuart F.; Oas, Thomas H., 376
- Deweese, John S. See Montgomery, Mark R.
- Dezfulian, M.; Zafari, Y., 943
- Diamond, Israel See Velletri, Kimberly
- Di Cesare, J. L.; Atwood, J. G., 1031
- Di Cesare, Joseph L. See Atwood, John G., 1448
- Dieterle, R. C., Jr.; England, B. G.; Midgley, A. R., Jr., 1004
- Dietz, A. A. See Nijm, W.
- Dietz, Albert A. See Brown, Stanley S.
- Dillmann, Eric See Loria, Alvar
- Dingeon, N. See Rolland, M. O.
- Dinovo, E. C.; Gottschalk, L. A.; Nandi, B. R.; Geddes, P. G., 974
- ; Gottschalk, L. A., 1033
- Dinsmore, Stanley R. See Mrochek, John E.
- Dirren, Henri; Robinson, Arthur B.; Pauling, Linus, 1970
- Di Silvio, Thomas V. See Whitehurst, Philip
- Distler, A. See Lommer, D.
- Dixit, Padmakar K.; Cadwell, Ruth, 825
- Dobryszczyka, W.; Jacyszyn, K.; Kotlarek-Haus, S., 998
- Doetsch, Karl; Gadsden, Richard H., 778
- Doherty, P. See Anderson, K. M.
- Doi, Yasuyuki; Kataura, Akikatsu, 414
- Doman, J. See Clejan, S.; Hever, O.
- Dominguez, Juan Armas See Gutierrez-Hidalgo, Esther
- Donabedian, R. K. See Buchholz, D. H.
- Donohue, J.; Sgoutas, D., 1022
- Donohue, John; Sgoutas, Demetrios, 770
- Doornebos, I. See Elion-Gerritsen, W. E.
- Doornebos, J. See Elion-Gerritsen, W. E.
- Dorwart, W. V. See Weisberg, Harry F.
- Dorwart, William V.; Chalmers, Leslie, 190
- Dotte, J. See Rolland, M. O.
- Doumas, B. See Greiff, D.
- Doumas, B. T.; Jendzejczak, B.; Becker, M.; Rothwell, D. J., 1000
- ; Lemberger, M., 1000
- Doumas, Basil T.; Bayse, David D.; Biggs, Homer G.; Gadsden, Richard H.; Klein, Bernard; Lubran, M. Michael; Peters, Theodore, Jr.; Rodkey, F. Lee; Stewart, Charles C.; White, James W., 1159
- Draisey, Thomas F. See Moses, Godfrey
- Dreux, C.; Halter, D., 947
- ; Bousquet, B., 1024
- Driscoll, R. See Giegel, J.; MacQueen, J.
- Driscoll, R. C.; White, N. H., 1017
- Dryburgh, Frances J. See Shepherd, James
- Drzewicki, G. See Killian, C. S.
- D'Souza, J. P. See Kubasik, N. P.
- ; Sine, H. E.; Horvitz, R. A.; Brody, B. B.; Kubasik, N. P., 975
- Dubin, A. See Musiala, T. S.
- Dubowski, K. M., 973
- Dudrick, Stanley John, 928
- Duly, Peggy E. See Zettner, Alfred
- Duncan, Patricia H.; Cooper, Teresa; Bayse, David; Gochman, Nathan, 1014
- Dunka, Louis J., Jr.; Ladden, Paul J.; Littrell, Marie E.; Durso, Carol L.; Bosko, Joseph A., 979
- DuPont, H. L. See Pekarek, Robert S.
- Durbridge, T.; Edwards, F. M.; Atkinson, M.; Edwards, R. G., 954
- Durso, Carol L. See Dunka, Louis J., Jr.
- Durst, Richard A., 176
- Dwenger, A. See Friedel, R.
- Dwyer, J. L. See Lane, H. E., Jr.
- Dwyer, James L. See McTaggart, Wesley G.
- Dybkaer, R. See Olesen, H.
- Dyerberg, J. See Blom, M.
- Eberle, Andrea J. See Russell, Paul T.
- Eckel, W. See Seidel, D.
- Edwards, F. M. See Durbridge, T.
- Edwards, G. C. See Schneider, A. L.
- ; Schneider, A. L., 1034
- Edwards, J. B. See Thomas, D. W.
- Edwards, L. See Lo, D. H.
- Edwards, R. G. See Durbridge, T.; Thomas, D. W.
- Egan-Mitchell, B. See Fottrell, Patrick F.
- Eggert, A. A.; Westgard, J. O., 1005
- Eggert, Arthur A. See Cembrowski, George S.
- Eggstein, M. See Schmulling, R.-M.
- Eid, M. See Scharpe, S.
- Eidelman, A. See Zaidman, J. L.
- Eilers, Russell J., 1357
- Eimstad, W. See Ullman, E. F.
- Eiskamp, J. G. See Moorehead, W. R.
- El-Beahiri, Nadia See Abul-Fadl, M. A. M.
- Eldjarn, Lorentz; Jellum, Egil; Stokke, O., 63
- Elion-Gerritsen, W. E.; van Schalkwijk, W. P.; Doornebos, I.; Hawking, K. M.; Lameyer, L. D. F., 955
- ; Doornebos, J.; Schalkwijk, P. v.; Stok, W., 962
- Eikins, R. P. See Morejon, C. B.
- Ellis, G.; Goldberg, D. M.; Ward, A. Milford, 977
- ; Goldberg, D. M., 1035
- Ellis, Keith J.; Morrison, John F., 776
- Elser, Robert C., 1854
- Emerson, Diane D. See Mueller, Rudolph G.
- Endahl, G. L.; Sims, G. M., 1028
- Engel, R. H. See O'Bryan, D. P.
- Engelhardt, A.; Barr, M.; Margolf, J., 965
- England, B. G. See Dieterle, R. C., Jr.
- Enstrom, H. See Helsing, K.
- Entwistle, P. A. See Foster, R. L.
- Epstein, E. See Feldkamp, C. S.
- Erikson, John See Jung, David
- Erikson, John M. See Biggs, Homer G.
- Ertingshausen, G.; Shapiro, S. I.; Green, G.; Zborowski, G., 967
- Ertingshausen, Gerhard; Shapiro, Stephen I.; Green, Gerald; Zborowski, George, 1305
- Espinosa, Eli S. See Wease, Dorothy F.
- Evenson, Merle A.; Anderson, C. Thomas, Jr., 537
- ; Warren, Brenda L., 619
- Everse, Johannes; Reich, Richard M.; Kaplan, Nathan O.; Finn, W. Donald, 1277
- Everson, A. See Kapur, B. M.
- Fagnani, Francis See Siest, Gerard
- Farag, A. See Allah, A. S. Khalaf
- Farid, Nagy A.; Born, Gordon S.; Kessler, Wayne V.; Shaw, S. M.; Lange, W. E., 1167
- Farrell, T. J.; Frankfurter, A., 1019
- Fasce, C. F., Jr. See Rej, Robert
- Fast, Douglas M. See Pardue, Harry L.
- Faulstick, H. See Vecsei, P.
- Federman, Doza See Fischl, Joseph
- Felber, J. P. See Temler, R.
- Feld, R. D.; Witte, D. L.; Barrett, D. A., II, 948
- Feldhaus, Joanne See Davis, Raymond
- Feldkamp, C. S. See Watkins, R.
- ; Epstein, E.; Thibert, R. J.; Zak, Bennie, 1023
- Felgenhauer, K.; Schliep, G.; Rapic, N., 945
- Fendley, Ted W.; Frings, Christopher S., 154
- ; Price, M.; Frings, Christopher S., 1037
- Fenili, D. See Peracino, A.
- Fenili, F. See Peracino, A.
- Fennell, R. See MacLin, E.
- Fennessey, Paul V. See Thompson, John A.
- Fernandez, Alberto A.; Loeb, Harold G., 1113
- Fernandez, Frank J., 558
- Ferry, J. Douglas See Blend, Michael J.
- Fetter, Marion C. See Miller, Carol A.
- Fetterhoff, D. E. See Shaw, L. M.
- Fetterhoff, Donald See London, Jack W.
- Feuer, G. See Acheampong-Mensah, D.
- ; de la Iglesia, F. A.; Takada, A., 959
- Fine, James S. See Clayton, Kathleen J.
- Fingerhut, B.; Ahuja, S., 947
- Finn, W. Donald See Everse, Johannes
- Fischer, Craig L. See Waterman, Cleveland S.
- Fischer, J.; Tovarek, J., 166
- Fischer, R. L.; Foery, R. F., 954
- Fischl, Joseph; Federman, Doza; Talmor, Nira, 760
- Flanary, Phil See Boone, D. Joe
- Flatt, Jean-Pierre; Blackburn, G. L., 929
- Fleischer, Norman See Heise, Clara M.
- Fleisher, M.; Bethune, V. G.; Pennacchia, G.; Schwartz, M. K., 980
- Flichman, J. C. See Chernoff, E.
- ; Chernoff, E.; Belli, L.; Granillo Robles, A., 1035
- Flood, J. G. See Todd, D. M.
- Flores, O. See Matthews, W. S.; Ryan, W.
- Fluckiger, Jurg See Lutz, Rudolf A.
- Foery, R. F. See Fischer, R. L.
- Forde, M. W., 1004
- Forfar, J. O. See Belton, N. R.
- Fostakowsky, R. See Boeckx, R. L.
- Foster, R. L.; Entwistle, P. A., 1845
- Foti, Andras G.; Herschman, Harvey; Cooper, J. Fenimore; imFeld, Hedi, 1761
- Fottrell, Patrick F. See Spellman, Carmel M.
- ; Egan-Mitchell, B.; McNicholl, B., 958
- Fox, H. A. See Sarkoz, L.
- Frajola, W. J.; Maurukas, J., 962
- Frankfater, A. See Farrell, T. J.
- Franklin, Barry See Mendez, Jose
- Free, Alfred H.; Free, Helen M., 1034
- Free, Helen M. See Free, Alfred H.
- Freedland, N. A. See Newman, H. A. I.
- Frey, Charles F. See Andres, Scott F.
- Friedel, R.; Dwenger, A., 967
- Friel, Patrick; Troupin, Allan S., 751
- Frings, Christopher S. See Fendley, Ted W.; Neri, Bruce P.
- ; Muscat, Vincent I., 962
- ; Muscat, Vincent I.; Waldrop, Nancy T., 1001
- ; Keefer, Robert C.; Saloom, Joe, 1037
- Friskid, K.; Bredeesen, J. E.; Lunde, P. K. M., 1180
- Frohlich, J. See Frohlich, M.
- , 1343
- Frohlich, M.; Frohlich, J.; Bernstein, M., 972
- Fronk, S. See Knight, Joseph A.
- Frye, Joyce H. See Rodriguez-Castellon, Jose A.
- Fujii, Satoru; Yamagata, Shigenori; Tanaka, Koshiro; Wada, Masahisa; Okuda, Kiyoshi, 949
- Fukushima, Kimiko See Anderson, Peter H.
- Fuller, J. B. See Passey, R. B.
- Fuller, Janet M.; Keyser, J. W., 667
- Fuller, John B. See Passey, Richard; Passey, Richard B.
- Funding, L.; Steensgaard, J., 984
- Furda, J.; Morgenstern, S.; Snyder, L., 1005
- Furguele, J. J. See Lent, R. W.
- Furman, William B. See Black, John C.
- Furst, Arthur, 1542
- Furuya, E. See Nishikaze, O.
- Gadsden, Richard H. See Doetsch, Karl; Doumas, Basil T.
- Gagne, M. See Daigneault, R.; Letellier, G.
- Gahagan, Harry See Mendez, Jose
- Galen, R. S. See Gambino, S. Raymond
- ; Gambino, S. R., 1008
- Galen, Robert S.; Gambino, S. Raymond, 272
- ; Gambino, S. Raymond, 1848
- Galteau, M. M. See Siest, G.
- ; Le Perron, B.; Batt, A. M.; Poire, M.; Siest, G., 1008
- Galteau, Marie-Madeleine See Siest, Gerard
- Gambino, S. R. See Galen, R. S.
- Gambino, S. Raymond See Galen, Robert S.
- ; Galen, R. S., 924
- Ganendran, A. See Balabaskaran, S.
- Gannett, R. See Malkus, H.
- Garfinkel, D. See Shaw, L. M.
- Garfinkel, David See London, Jack W.
- Garnys, V. P.; Matousek, Jaroslav P., 891
- Garry, P. J.; Owen, G. M., 982
- Gauchel, Franz D. See Toseland, Patrick A.
- Geddes, P. G. See Dinovo, E. C.
- Gempp, W. See Prellwitz, W.
- ; Prellwitz, W.; Kapp, S., 958
- Gennaro, William D.; Van Norman, John D., 873
- George, H.; Ridley, N.; Nugent, F., 996
- Gerbaud, Lucile See Rey, Elisabeth
- Gerhardt, Willie; Persijn, Paul; Rosalki, Sidney B., 1515
- Gerlach, W. See Hutter, H.-J.
- Gershuni, D. H. See Axer, A.
- Gerstbrein, H. L. See Lederer, W. H.
- Gerstbrein, Harry L. See Lederer, William H.
- Ghiringhelli, A. See Chernoff, E.
- Gibbs, B. See Itiaba, K.
- Gibson, A. S. See Yarmosh, D. F.
- Gibson, Donald F. See Detter, James C.
- Gibson, Thomas P. See Matusik, Edward
- Giegel, J. See Ham, A. B.; MacQueen, J.
- ; Lindsey, V.; Driscoll, R.; Schneider, A., 963
- Giegel, Joseph L.; Ham, Anna Bell; Clerma, William, 1575
- Giesel, A. See Natelson, S.
- Gilboa, Y.; Hertzenu, I.; Rosenberg, T.; Lagstein, R.; Zaidman, J. L., 986
- Giles, M. L. See Passey, R. B.
- Giles, M. M. See Belton, N. R.
- Giles, Mary Louise See Passey, Richard
- Gillum, R. L. See Passey, R. B.
- Gillum, Ronald L. See Passey, Richard; Passey, Richard B.
- Gindler, E. Melvin, 309, 953, 962
- Giorgi, Eleonora See Grant, James K.
- Givas, Joan K.; Gutcho, Sidney, 427
- Glavaski, B. Simic See Oppl, Jan J.
- Glenn, J. H., 1004
- Glick, David; Marich, Kenneth W., 1238
- Glick, M. R. See Jung, D. H.
- Glorieux, F. H. See Crawhall, J. C.; Delvin, E. E.

- Goad, C. A. See Salzman, G. C.
 Gochman, N. See Bowie, L. J.; Lie, R. F.
 Gochman, Nathan See Duncan, Patricia H.
 —; Ryan, William T.; Sterling, Rex E.;
 Widdowson, Graham M., 356, 1531
 Goedde, H. W. See Agarwal, D. P.
 Golbus, M. See Solomons, C.
 Goldberg, D. M. See Ellis, G.
 Goldberg, Jack M.; Petrus, E. A.; Nedzel, G. A., 999
 Goldschmidt, H. See Lent, R. W.
 Good, Robert A., 918
 Gornall, A. G. See Liew, C. C.
 Gornall, Allan G., 940
 Gotto, A. M. See Segura, R.
 Gottschalk, L. A. See Dinovo, E. C.
 Gowland, E. See Abdullah, J. Sh.
 Grady, Harold; Voshall, David, 1546
 Grady, Harold J. See Voshall, David L.
 Grams, Ralph E., 921
 Granillo Robles, A. See Chernoff, E.; Flichman, J. C.
 Grannis, George F., 1998
 Grant, James K.; Giorgi, Eleonora; Cowan, R. A.; Pollock, Anne, 923
 Graser, W. See Schmullin, R.-M.
 Gray, E. D. See Blume, P.
 Gray, J. W.; Carrano, A. V.; Moore, D. H., II; Steinmetz, L. L.; Minkler, J.; Mayall, B. H.; Mendelsohn, M. L.; Van Dilla, M. A., 1258
 Greaves, Jean G. See Hicks, Jocelyn M.
 Green, D. E.; Hertel, R. H., 947
 Green, G. See Ertlinghausen, G.
 Green, Gerald See Ertlinghausen, Gerhard
 Green, Maurice, 961
 Green, Ruth C. See Desaty, Darko
 Greenberg, L. J. See Blume, P.
 Greenberg, Leonard J. See Blume, Philip
 Greif, H. See Klose, S.
 Greiff, D.; Doumas, B.; Perry, B., 1001
 Greyson, Jerome See Morris, D. A. N.
 Griffiths, William C. See Velletri, Kimberly
 Grignol, G. See Calam, Roger R.
 Grisley, D. W., Jr.; Hirsch, C. A.; Copeland, B. E., 961
 Groff, William A., Sr. See Smith, Roger P.
 Gross, D. See Batra, K. K.; Haider, M.; Nelson, J. W.
 Groth, U.; Prellwitz, W., 981
 Gruber, W. See Roschlau, P.
 —; Klarwein, M.; Mollering, H., 963
 Gruemer, H.-D. See Coburn, Stephen P.; Krause, R. D.; Silverman, Lawrence M.
 Grunberg, E. See Usategui-Gomez, M.
 Gueguen, Rene See Siest, Gerard
 Guilbault, George G. See Huang, Hua-shan; Rietz, Bernd
 —; Rietz, E. Bernd, 1544
 Gupta, R. N.; Keane, P. M., 1346
 Gutcho, Sidney See Givas, Joan K.
 Gutierrez-Hidalgo, Esther; Urzua, Miguel A.; Dominguez, Juan Armas; Karchmer, Samuel, 950
 Gutmann, I. See Roschlau, P.
 —; Scheibe, P.; Bernt, E., 1036
 Haberfelde, George C. See McIntyre, Joyce A.
 Hachey, David L. See Klein, Peter D.
 Haackel, R.; Heinz, F., 1018
 Hagen, A. See Zwez, W.
 —; Ziegenhorn, J., 941
 Hagen, H. See Klose, S.
 Hager, Hans See Ross, Robert
 Hahn, Henry K. J. See Burch, Robert E.
 Haid, Erich; Lehmann, Paul; Ziegenhorn, Joachim, 884
 Haider, M. See Batra, K. K.
 —; Batra, K. K.; Gross, D., 1022
 Halfman, C., 951
 Hall, Frank F. See Spiekerman, A. M.
 Halter, D. See Drex, C.
 Ham, A. B.; Giegel, J., 971
 Ham, Anna Bell See Giegel, Joseph L.
 Hammond, J. E. See Buffone, Gregory J.; King, S. W.
 —; Cross, R. E.; Savory, J., 1018
 Hamon, Neil W. See Hindmarsh, K. Wayne
 Hanabuchi, R. See Nambara, T.
 Hancock, Daniel See Onstad, John
 Hancock, K. See Levell, M. J.
 Handschin, U. E. See Dain, M. Le
 —; Ritschard, W., 944
 Hannett, B. See Thomas, D. W.
 Hannon, W. H.; Morgan, A.; Smith, J.; Spierito, F. W., 943
 Hansen, H. R. See Van Kley, H.
 Hansen, K. M. See Salzman, G. C.
 Hansen, S. Ingemann; Holm, J.; Lyngbye, J., 1020
 Hanson, N. Q. See Yasmineh, W. G.
 Hanson, Naomi Quast See Yasmineh, Walid G.
 Harding, R. S. See O'Bryan, D. P.
 Hardwick, D. F. See Applegarth, D. A.
 Harmuth-Hoene, E. See Rubin, Martin
 Harris, E. K., 1007
 Harris, Eugene K., 1457
 Hartman, Burr C. See O'Donnell, C. Michael
 Hartstein, E. See Azer, A.
 Harvey, Johnnie L. See Sleeman, H. Kenneth
 Haschen, R. J. See Burchardt, U.; Hutter, H.-J.
 Hasler, M. See Painter, C.
 Hassemer, D. See Laessig, R.
 —; Laessig, R.; Westgard, J.; Carey, N.; Schwartz, T., 953
 Hata, K.; Sasaki, T., 1000
 Hatcher, D. W., 965
 Haueisen, H. See Schmidt-Gayk, H.
 Haug, H.; Schramm, C., 1025
 Haumann, Joseph R. See Klein, Peter D.
 Hawking, K. M. See Elion-Gerritzen, W. E.
 Hayashi, C. See Takahashi, Z.
 Haymond, R. E. See Knight, Joseph A.
 Haymond, Russell E.; Knight, Joseph A., 896
 Haynes, Royce See Trafton, John E.
 Haythorn, Pat See Sheehan, Michael
 Healy, Michael J. R. See Pickup, John F.
 Hearn, D. See Ryan, W.
 Heintges, M. G. See Buffone, G. J.; Cross, R. E.
 —; Savory, J.; Cross, R. E., 1036
 Heinz, F. See Haackel, R.
 Heise, Clara M.; Lash, Betty; Fleischer, Norman, 447
 Hellman, L. See Kream, J.
 Helling, K.; Enstrom, H.; Lindmark, R.; Sjoquist, J., 944
 Helling, Kristoffer See Lizana, Jorge
 Henderson, A. R. See Nealon, D. A.; Rose, C. I.
 Henderson, Arthur R. See Nealon, Daniel A.; Rose, Clive I.
 Henny, J. See Siest, G.
 Henry, John Bernard See Sage, Gloria Welt
 Henry, P. See Saunders, R. A.
 Henry, Philip D. See Byrnes, Adrienne Clare
 —; Roberts, Robert; Sobel, Burton E., 844
 Henry, R. L. See Calam, Roger R.
 Henry, Richard J., 939
 Henry R. L. See Calam, Roger R.
 Hensley, W. J. See Stewart, P. M.; Whitfield, J. B.
 Hepner, G. W. See Demers, L. M.
 Hermans, J. See Buffone, Gregory J.
 Herschman, Harvey See Foti, Andras G.
 Hertel, R. H. See Green, D. E.
 Hertzeanu, I. See Gilboa, Y.
 Herzberg, M.; Amir, E.; Oberman, Z.; Laurian, L., 1027
 Hetherly, Melvin E. See Spiekerman, A. M.
 Heuck, C. C. See Seidel, D.
 Hever, O.; Paksi, A.; Doman, J.; Hollo, T., 1021
 Heveran, J. E. See Usategui-Gomez, M.
 Heveran, John See Davis, Raymond
 Hewitt, T. E. See Carey, R. N.
 Hewitt, Thomas E. See Chung, Henry F. M.
 —; Pardue, Harry L., 199
 —; Pardue, Harry L., 249
 Hibrawi, Hazem; Blaker, Robert G., 765
 Hicks, Edward J.; Hughes, Blossie J., 1072
 Hicks, Jocelyn M.; Iosefsohn, Mariet; Greaves, Jean G., 951
 Hiebert, R. D. See Salzman, G. C.
 Hill, J. G. See Cherian, A. G.
 Hill, Reba M. See Horning, Marjorie G.
 Hindle, E. J. See Horrocks, R. H.
 Hindmarsh, K. Wayne; Hamon, Neil W.; LeGatt, Donald F., 1852
 Hinners, Thomas A. See Creason, John P.
 Hirsch, C. A. See Chakrin, A. L.; Grisley, D. W., Jr.
 Hjorne, N. See Blom, M.
 Hjorne, Niels See Blom, Mogens
 Hodges, James M. See Coburn, Stephen P.
 Hofstetter, Grace See Naito, Herbert K.
 Hollander, Melvin See Marcus, Martin
 Hollingsworth, Dorothy R. See Moser, Russell J.
 Hollingsworth, W. See Neeley, W. E.
 Hollister, David W., 937
 Hollo, T. See Hever, O.
 Holm, J. See Hansen, S. Ingemann
 Holmes, Margaret M. See Vinson, Joe A.
 Holtzman, Jordan L. See Montgomery, Mark R.; Shaw, William
 Holzel, A. See McFarlane, H.
 Holzer, Helmut, 927
 Homolka, J., 1017
 Hooyma, Jane E. See Vinson, Joe A.
 Hopkins, Nancy Eddy See Robinson, C. A., Jr.
 Horder, Mogens See Moore, Robert E.
 —; Moore, Robert; Bowers, George N., Jr., 1028
 Hori, M. See Nakata, Y.
 Horner, F.; Kellen, J. A.; Malkin, A., 997
 Hornick, R. B. See Pekarek, Robert S.
 Horning, Marjorie G.; Nowlin, J.; Lertatranangkoon, K.; Stafford, M., 935
 —; Nowlin, Jean; Butler, Carla M.; Lertatranangkoon, Khing; Sommer, Kathleen; Hill, Reba M., 1282
 Horrocks, Donald L., 370
 Horrocks, R. H.; Hindle, E. J.; Lawson, P. A.; Orrell, D. H.; Poole, A. J., 1025
 Horton, Richard See Kao, Michael
 Horvath, C.; Leon, L.; Sansur, M.; Snyder, L., 1017
 Horvath, D. See Leon, L. P.
 Horvitz, R. A. See D'Souza, J. P.
 Horwitz, Charles A. See Ross, Robert
 Hosli, Peter, 938
 Hoste, Julien See Versieck, Jacques
 Houot, O. See Siest, G.
 Howarth, A. T., 960
 Hrisoho, D. T. See Hrisoho, R. K.
 Hrisoho, R. K.; H. soho, D. T., 1020
 Hsiung, M.-W. See Crawhall, J. C.; Itiaba, K.
 Hsu, Jeng M.; Anthony, William L., 544
 Huang, Hua-shan; Kuan, Jui-chang W.; Guilbault, George G., 1605
 Hufner, M. See Schmidt-Gayk, H.
 Hughes, Blossie J. See Hicks, Edward J.
 Huismann, T. H. J. See Abraham, E. C.
 Hull, E. See Chinh, Nguyen H.
 Hunter, Lynda See Voshall, David L.
 Hutter, H.-J.; Bohme, L.; Gerlach, W.; Haschen, R. J., 1019
 Hutton, C. J. See Kutty, K. M.
 Hynne, Ivo; Meuffels, Mary; Poznanski, Wojciech Janusz, 1383
 Iaffe, D. See Azer, A.
 Iammarino, R. M., 300
 Iammarino, Richard M. See Papadopoulos, Nicholas M.
 Ibbott, F. A. See Blattler, D. P.
 Imanari, T. See Tamura, Z.
 Imfeld, Hedi See Foti, Andras G.
 Indriksons, Andris, 1345
 Ingram, M. L. See Salzman, G. C.
 Iosefsohn, Mariet See Hicks, Jocelyn M.
 Ismail, Adel A. A.; Dakin, Terry A., 1015
 Itiaba, K.; Hsiung, M.-W.; Gibbs, B.; Crawhall, J. C., 1015
 Iturralde, M. See Pannall, P.
 Ivory, D. See Reid, R. W.
 Iwamori, Masao; Moser, Hugo W., 725
 Jaberg, Clair; McConnell, Kay; Potter, Joseph L.; Platt, Marvin S., 1511
 Jackson, M. J. See Richmond, W.
 Jackson, Malcolm J. See Pickup, John F.
 Jackson, Sanford H., 933
 Jacyszyn, K. See Dobryszczyka, W.
 Jagdenburg, R., 998
 Jain, Mishral See Kokoski, Robert J.
 Jain, Naresh C.; Sneath, Thomas C.; Budd, Robert D.; Leung, Wai J., 1486
 Jaklitsch, A. See Ullman, E. F.
 James, L. Stanley, 919
 Jansson, Lennart See Lizana, Jorge
 Jarzabek, J. See Kampa, I. S.
 Jatlow, Peter, 1518
 Jatlow, Peter I. See Sommers, Philip B.
 —; Bailey, David N., 946
 —; Bailey, David N., 1918
 Jeejeebhoy, K. N. See Anderson, Gerald Harvey
 Jellum, Egil See Eldjarn, Lorentz —, 936
 Jendrzczak, B. See Doumas, B. T.
 Jenkins, M. V. See Wills, M. R.
 Jensen, B. See Spiehl, V.
 Jetton, Mary M. See Burch, Robert E.
 Jezerinac, Z. See Lipovac, K.
 Jiang, Nai-Siang; Machacek, Dwaine; Wadel, Orlando P., 387
 Jibril, Abbas; Volini, Frederick, 945
 Joern, W. A., 1548
 Johnson, Eugene A. See Winkel, Per
 Johnson, G. F. See Least, C. J., Jr.; Rock, R. C.
 Johnson, George F. See Catalano, Edward W.; Dechtiaruk, Walter; Least, Charles J., Jr.
 —; Dechtiaruk, Walter A.; Solomon, Harvey M., 144
 Johnson, R. B.; Nakamura, R. M., 1009
 Johnson, Roy B., Jr.; Nakamura, Robert M.; Libby, Rose Mary, 1725
 Johnson, Thomas See Wong, Pui-Yuen
 Johnson, W. F. See Novrit, B.
 Johnson, W. F. See Burtis, C. A.
 Joiner, B. L. See Carlson, I. H.
 Jones, J. D. See Steig, H.
 Jones, S. V. See McFarlane, Hylton
 Jones, Tom See Marbach, Edward P.
 Jordan, Joseph See McGlothlin, C. David
 Joselow, Morris See Lamola, Angelo A.
 Joselow, Morris M.; Stefanowski, Andrew, 638
 Joseph, Ramon R. See Andres, Scott F.
 Juggi, J. S., 1002
 Jukofsky, Dennis See Mule, Salvatore J.
 Julien, Gerard See Kalofoutis, Anastasios
 Jung, D. H.; Glick, M. R., 1001

- Jung, David; Biggs, Homer; Erikson, John; Ledyard, Peggy U., 1136
- Jung, David H.; Biggs, Homer G.; Moorehead, Wells R., 1526
- Juretic, D. See Lipovac, K.
- Kadohama, N. See Anderson, K. M.
- Kalafatic, Z. See Lipovac, K.
- Kalofoutis, Anastasios; Jullien, Gerard, 1345
- ; Jullien, Gerard; Koutselinis, Antonios; Miras, Constantinos, 1414
- Kaminskis, Andris See Sidell, Frederick R.
- Kampa, I. S.; Jarzabek, J.; Clain, J., 970
- Kanagasabapathy, A. S.; Wellby, M. L.; Marshall, Janet, 1010
- Kanno, T.; Saga, M.; Kano, S., 997
- Kano, S. See Kanno, T.
- Kao, J. T. See Chen, J. S.
- Kao, Michael; Volna, Sandra; Nichols, Albert; Horton, Richard, 1644
- Kaplan, Nathan O. See Everse, Johannes
- Kapp, S. See Gemp, W.; Prellwitz, W.; Vecsei, P.
- ; Schickentanz, K. H.; Prellwitz, W.; Breuer, L., 1008
- Kapur, B. See Sellers, E. M.
- Kapur, B. M.; Everson, A.; Segal, R.; Le Blanc, A. E., 947
- Karchmer, Samuel See Gutierrez-Hidalgo, Esther
- Karmen, A. See Lent, R. W.
- Kasper, Linda M. See Moorehead, Wells R.
- Kasper, Steve See Biggs, Homer G.
- Kataura, Akikatsu See Doi, Yasuyuki
- Kaufman, S. See Leiba, I. H.
- Kawaguchi, Hiroshi; Auld, David S., 591
- Keane, P. M. See Gupta, R. N.
- Keane, Paul M.; Stuart, Judith; Mendez, Jean; Barbadoro, Sandra; Walker, William H. C., 1474
- Keefer, Robert C. See Frings, Christopher S.
- Kellen, J. A. See Horner, F.
- ; Caplan, B.; Abrahams, D.; Malkin, A., 969
- Keller, Patricia J. See Stiefel, Doris J.
- Kelly, A. See Munan, L.
- Kelly, A. M. See McCulloch, J. C.; Stuart, J. F.
- Kelly, Kenneth See Schwenk, Robert
- Kennedy, J. W., 953, 977
- Kenny, Margaret A. See Lee, Lilian M. Y.
- Kenny, R.; McGinley, R.; Stronge, J., 1010
- Kerkay, Julius; McEvoy, Donald, 1030
- Kesner, Leo; Aronson, Frank L.; Silverman, Morris; Chan, Phillip C., 353
- Kessler, G.; Morgenstern, S.; Snyder, L.; Varady, R., 1005
- Kessler, Wayne V. See Farid, Nagy A.
- Keyser, J. W. See Fuller, Janet M.
- Khy, Joseph X., 1245
- Kiang, Shioh-ling W.; Kuan, Jui-chang W.; Guilbault, George G., 1799
- Killian, C. S.; Bhargava, A. K.; Drzewiecki, G.; Chu, T. M., 1018
- Killingsworth, L. See Buffone, G. J.
- Killingsworth, L. M. See White, R. M.
- ; Yount, W. J.; Roberts, J. E., 1021
- Killingsworth, Lawrence M.; Britain, Carol E.; Woodard, Linda L., 1465
- Kilroe-Smith, T. A., 630
- Kim, E. K.; Logan, J. E., 999
- Kim, J. C. S.; Stasiw, R.; Bucolo, G.; Morgenstern, S., 988
- Kim, Kyoung See Liebich, Hartmut M.
- Kimzey, Steve L. See Waterman, Cleveland S.
- Kind, P. R. N.; McMurray, J. R., 959
- Kindler, Shmuel H. See Rush, Robert A.
- King, J. See Naghizadeh, F.; Percy, R.
- King, J. S., 179, 276, 456, 467, 644, 793, 1047, 1189, 1352, 1559, 1696, 1866, 2012
- King, S. See Kolos, O. T.
- King, S. W.; Hammond, J. E.; Savory, J.; Cross, R. E., 1034
- Kissinger, P. T. See Slaunwhite, W. David; Wenke, D. C.
- Kissinger, Peter T. See Slaunwhite, W. David
- Kitagawa, Teruo; Smith, Barbara A.; Brown, Eleanor S., 735
- Klarwein, M. See Gruber, W.
- Kleiman, Betty See Applegarth, Derek A.
- Klein, Bernard See Doumas, Basil T.
- ; Standaert, Fontaine, 1479
- Klein, Peter D.; Haumann, Joseph R.; Hachey, David L., 1253
- Kleinhammer, G.; Stellner, K.; Linke, R., 967
- Klimley, P. See MacQueen, J.
- Kloppick, T.; Sawicki, Z.; Wysokinska-Borowicz, A.; Bielecki, K.; Czornik, A.; Krawczynski, J., 955
- Klose, S. See Wahlefeld, A.
- ; Greif, H.; Hagen, H., 942
- Knight, Joseph A. See Haymond, Russell E.
- ; Fronk, S.; Haymond, R. E., 130
- Knight, W. A., Jr. See Van Kley, H.
- Knights, Brian A.; Legendre, Mary; Laseter, John L.; Storer, James S., 888
- Knoblock, E. C. See Ramiz, A. S.; Rundell, C. A.
- ; Rundell, C. A., 1001
- Knott, L. See Rubin, Martin
- Koch, P. See Tonks, D. B.
- ; Tonks, D. B., 1011
- Koch, R. See Roka, L.
- Koch, Thomas R., 978
- Kochhar, M. M.; Bhushan, R.; Bayda, L. T., 973
- Kochhar, Man M. See Needham, Larry L.
- Koehler, Donald F. See Steele, Bernard W.
- Koepeke, John A.; Thomas, James F.; Schmidt, Robert M., 1953
- Koetitz, S. E. See Neely, W. E.
- Koharcheck, Harry See Vinson, Joe A.
- Koirtvohann, S. Roy See Perry, Elizabeth F.
- Kokoski, Robert J.; Jain, Mishrilal, 417
- Koller, A.; Natelson, S., 1003
- Koller, Anthony; Comess, Jay D.; Natelson, Samuel, 235
- ; Aldwin, Lois; Natelson, Samuel, 1777
- Kolos, O. T.; King, S., 944
- Kondo, T. See Baba, S.
- Kostol, Carl See Zachariassen, Hans
- Kosunen, K. J.; Pakarinen, A. J., 985
- Kotb, N. See Allah, A. S. Khalaf
- Kotlarek-Haus, S. See Dobryzcka, W.
- Koutselinis, Antonios See Kalofoutis, Anastasios
- Kovacs, H. Nagy See Sarkozi, L.
- Krause, R. D.; Anand, V. D.; Gruemer, H.-D.; Willke, T. A., 321
- Krawczynski, J. See Klopocki, T.; Sadowska, H.; Sagan, A.
- Kream, J.; Rosenfeld, R. S.; Hellman, L., 951
- Kregoski, Thomas J. See Andres, Scott F.
- Kreig, Arthur F. See Sampson, Eric J.
- Kremer, H. See Seiffert, U. B.
- Krieg, Arthur F. See Sampson, Eric J.
- Kroese, A. B. A. See Sanders, G. T. B.
- Kruse-Jarres, J. D., 957, 957
- ; Noldge, G., 980
- Kuan, Jui-chang W. See Huang, Hua-shan; Kiang, Shioh-ling W.
- ; Lau, Herbert K. Y.; Guilbault, George G., 67
- Kubasik, N. P. See D'Souza, J. P.; Volosin, M. T.
- ; Sine, H. E.; D'Souza, J. P.; Brody, B. B., 957
- Kubasik, Norman P. See Volosin, Michael T.
- ; Volosin, Michael T.; Sine, Harrison E., 1922
- Kuczala, Z. J. See Ahluwalia, G. S.
- Kudirka, P. J.; Busby, M. G.; Carey, R. N.; Toren, E. C., Jr., 989
- Kudirka, Paul J.; Busby, Michael G.; Carey, R. N.; Toren, E. C., Jr., 450
- Kuffer, H.; Degiampietro, P., 947
- ; Degiampietro, P., 961
- ; Degiampietro, P., 1027
- Kuhn, M.; Naftolin, F., 1691
- Kumar, Anand; Christian, Gary D., 325
- Kuno-Sakai, Harumi See Willard, Rodney E.
- ; Sakai, Hideto; Ritzmann, Stephan E., 156
- ; Sakai, Hideto, 227
- Kupke, I. R., 990
- Kutty, K. M.; Hutton, C. J., 991
- LaBauve, P. M. See Salzman, G. C.
- Ladden, Paul J. See Dunka, Louis J., Jr.
- Ladenson, Jack H. See Bruns, David E.
- ; Bell, C. Elliott, Jr., 255, 1648
- Laessig, R. See Hassemer, D.
- ; Westgard, J.; Carey, N.; Hassemer, D.; Schwartz, T., 971
- Laessig, R. H.; Paskey, T. A., 962
- Lagstein, R. See Gilboa, Y.
- Lai, C. J. See Lane, H. E., Jr.
- Laker, M. F.; Menzies, I. S., 958
- Lam, C. T. W., 1000
- Lam, D. P. See Ahluwalia, G. S.
- Lameyer, L. D. F. See Elion-Gerritzen, W. E.
- Lamola, Angelo A.; Joselow, Morris; Yamane, T., 93
- Lancaster, Robert G.; Bowers, George N., Jr., 1042
- Landowne, Robert A., 1006
- Lane, H. E., Jr.; Dwyer, J. L.; Lai, C. J., 1015
- Laues, R. R. See Newman, H. A. I.
- Lang, Gordon E. See Mueller, Ralph G.; Mueller, Rudolph G.
- Lange, W. E. See Farid, Nagy A.
- Lantz, R. K.; Crouch, S. R., 1032
- Laseter, John L. See Knights, Brian A.
- Lash, E.; Besch, N. F.; Buttram, V. C., 992
- Lash, Betty See Heise, Clara M.
- Latta, John, 1344
- Lau, Herbert K. Y. See Kuan, Jui-chang W.
- Laurian, L. See Herzberg, M.
- Lauwers, A. See Scharf, S.
- Lauwers, Robert; Buchet, Jean-Pierre; Roels, Harry; Berlin, Alexander; Smeets, Jan, 551
- Lawrie, T. D. V. See Packard, C. J.
- Lawson, Alexander M., 803
- Lawson, P. A. See Horrocks, R. H.
- Laxdal, V. A.; Trew, J. A.; MacLachlan, T. B., 957
- Least, C. J., Jr.; Johnson, G. F.; Solomon, H. M., 946
- Least, Charles J., Jr.; Johnson, George F.; Solomon, Harvey M., 1658
- Le Blanc, A. E. See Kapur, B. M.
- Lederer, W. H.; Gerstbrein, H. L.; McClintock, W. C., 976
- Lederer, William H.; Gerstbrein, Harry L., 1347
- Ledyard, Peggy See Biggs, Homer G.
- Ledyard, Peggy U. See Jung, David
- Lee, H. See Bauer, S.
- Lee, Lilian M. Y.; Schiller, Harvey S., 719
- ; Kenny, Margaret A., 967
- ; Kenny, Margaret A., 1128
- Lee, Norman E. See Scott, Charles D.
- Lee, Patrick L. Y. See Marton, Laurence J.
- LeFever, David See Sage, Gloria Welt
- LeGatt, Donald F. See Hindmarsh, K. Wayne
- Legendre, Mary See Knights, Brian A.
- Lehmann, H. Peter See Schosinsky, Karl H.
- Lehmann, Paul See Haid, Erich
- Leiba, I. H.; Steiman, Y.; Scharf, S.; Kaufman, S.; Zaidman, J. L., 983
- ; Zaidman, J. L.; Steiman, Y.; Scharf, S.; Kaufman, S., 1034
- Leighton, R. F. See Newman, H. A. I.
- Leitz, V. M. See Rush, R. L.
- LeMat, B. See Barrett, M. J.
- Lemberger, M. See Doumas, B. T.
- Lent, R. W.; Furgiele, J. J., 987
- ; Mohr, E.; Goldschmidt, H.; Karmen, A., 988
- Lenz, Paul H.; Wien, George H.; Toth, Janice M., 1169
- Leon, L. See Horvath, C.
- Leon, L. P.; Sansur, M.; Snyder, L.; Horvath, D., 1017
- Leon, Luis P. See Brown, Harold H.
- Le Perron, B. See Gatteau, M. M.
- Lertratanangkoon, K. See Horning, Marjorie G.
- Lertratanangkoon, Khing See Horning, Marjorie G.
- Letellier, G. See Daigneault, R.
- ; Daigneault, R.; Gagne, M.; Metras, C.; Beaulieu, S., 1006
- Leung, F. Y., 982
- Leung, Wai J. See Jain, Naresh C.
- Leute, R. K. See Ullman, E. F.
- Leute, Richard K. See Montgomery, Mark R.
- Levelli, M. J.; Lynch, E.; Hancock, K., 1014
- Levin, Kias, 936
- Levin, William C. See Daniels, Jerry C.
- Levy, A. L.; Lum, G., 974
- Levy, Arthur L. See Lum, Gifford
- ; Lum, Gifford, 1691
- Levy, E. See McCarrick, J.
- Levy, Gabor B. See Pelleg, Amir
- Levy, Susanna; Ruggiero, Marie, 995
- Lewand, Donna L. See Roerig, David L.
- Lewis, J. P. See McGarry, M. P.
- Lewis, J. W. See Davis, J. E.
- Lewis, Jean See deBaare, Larissa
- Lewis, Lena A. See Naito, Herbert K.
- Lewis, Patricia J. See Mueller, Ralph G.
- L'Heureux, M. V. See Custod, J. T.
- Li, Philip K. See O'Donnell, C. Michael
- ; Sweat, Dennis S., 1036
- Libby, Rose Mary See Johnson, Roy B., Jr.
- Lie, R. F. See Bowie, L. J.
- ; Schmitz, J.; Pierre, K.; Gochman, N., 942
- Liebich, H. M. See Zlatkis, A.
- Liebich, Hartmut M.; Al-Babbili, Ossama; Zlatkis, Albert; Kim, Kyoung, 1294
- Liew, C. C.; Suria, D.; Gornall, A. G., 986
- Lillig, J. See Buzza, E.
- Lim, F., 975
- Lin, Grace J. See Behr, William T.
- Lin, H. L. See Cummins, L. M.
- Lin, Hsiang Ju, 1013
- Lindmark, R. See Hellsing, K.
- Lindsey, V. See Giegel, J.
- Lindstedt, Sven; Steen, Goran, 1964
- Ling, Walter See McIntyre, Joyce A.
- Linke, R. See Kleinhammer, G.
- Lipovac, K.; Kalafatic, Z.; Jezerinac, Z.; Juretic, D., 1012
- Littrell, Marie E. See Dunka, Louis J., Jr.
- Lizana, Jorge; Jansson, Lennart; Hellsing, Kristoffer, 762
- ; Thuman, Walter, 954
- Lo, D. H.; Wenke, D. C.; Pragay, D. A.; Chilcote, M. E., 1003
- ; Shirey, T. L.; Edwards, L.; Markowitz, E., 1012
- Loeb, Harold G. See Fernandez, Alberto A.
- Logan, J. E. See Kim, E. K.; Weatherburn, M. W.
- Lombart, Christian See Rey, Elisabeth
- Lommer, D. See Sinterhauf, K.

- ; Distler, A.; Nast, H. P.; Sinterhauf, K.; Walter, U., 986
- London, J. W.** See Shaw, L. M.
- London, Jack W.**; Shaw, Leslie M.; Fetterolf, Donald; Garfinkel, David, 1939
- Lorenzo, Beverly** See Valentour, James C.
- Loria, Alvar**; Dillmann, Eric, 1850
- Lorimer, A. R.** See Packard, C. J.
- Lott, John A.** See Miller, W. Greg
- ; Turner, Kathie; Beal, Rita; Mercier, Joan, 978
- ; Turner, Kathie, 1754
- Lowden, J. Alexander**, 920
- Lowy, Clara** See Bachus, R. A.
- Lubinski, R. M.** See Richards, A. H.
- Lubran, M. Michael** See Doumas, Basil T.
- Lucas, Robert E.** See Marcus, Martin
- Lukes, James J.** See Rao, Parinam S.
- Lum, G.** See Levy, A. L.
- Lum, Gifford** See Levy, Arthur L.
- ; Levy, Arthur L., 1601
- Lunde, P. K. M.** See Frisid, K.
- Lustig, V.**; Pollard, A.; McNeely, M. D. D., 1031
- Lutz, Rudolf A.**; Fluckiger, Jurg, 1372
- Luzzana, Massimo** See Rossi-Bernardi, Luigi
- Lynch, E.** See Levell, M. J.
- Lyngbye, J.** See Hansen, S. Ingemann
- Lyngbye, Jorgen** See Winkel, Per
- Maas, A. H. J.** See Veefkind, A. H.
- ; Van den Camp, R. A. M.; Veefkind, A. H., 981
- McArthur, M.**; Bygate, J.; Chong-Kit, R., 964
- McCann, Daisy S.** See Andres, Scott F.
- McCarrick, J.**; Levy, E.; Allerhand, J., 1009
- McClintock, C. W.** See Lederer, W. B.
- McCluskey, Susan B.**; Storey, G. N. B.; Brown, G. K.; More, D. G.; O'Sullivan, W. J., 1638
- McComb, R. B.** See Bond, L. W.
- McComb, Robert B.** See Bowers, George N., Jr.
- McConnachie, H. F.**, 958
- McConnell, Kay** See Jaberg, Clair
- McCormack, Lawrence J.** See Naito, Herbert K.
- McCroskey, Ralph** See Bucolo, Giovanni
- McCulloch, J. C.**; Kelly, A. M., 982
- McDowell, Alan E.** See Pardue, Harry L.
- McEvoy, Donald** See Kerkay, Julius
- McFarlane, H.** See Olusi, S. O.; Wallwork, J. C.
- ; Holzel, A.; Brenchley, P.; Allan, J. D.; Wallwork, J. C.; Worsley, B., 984
- McFarlane, Hylton**; Jones, S. V.; Azam, L.; Delamors, I. W., 1025
- McGarry, M. P.**; Lewis, J. P.; Mirand, E. A.; Neal, W. A., 998
- McGhee, B.** See Usategui-Gomez, M.
- McGinley, R.** See Kenny, R.
- McGlothlin, C. David**; Jordan, Joseph, 741
- McGrath, James P.** See Berman, Ann R.
- McGuigan, Elizabeth** See Bachus, R. A.
- Machacek, Dwayne** See Jiang, Nai-Siang
- McIntyre, Joyce A.**; Armandi, Arlene E.; Risen, Lance P.; Ling, Walter; Haberfelde, George C., 109
- McKenzie, Ian** See Seth, John
- MacKenzie, William F.** See Stevens, Michael D.
- MacKinney, Archie A., Jr.**; Burnett, George H.; Conklin, Robert L.; Wasson, Gertrude W., 857
- MacLachlan, T. B.** See Laxdal, V. A.
- MacLaren, Gordon D.**; Carpenter, John T., Jr.; Nino, Hipolito V., 1121
- McLean, M.** See Ryan, W.
- McLean, Monty** See Marbach, Edward P.
- MacLeod, S. M.** See Sellers, E. M.
- MacLeod, Stuart M.**, 930
- MacLinn, E.**; Saylor, R.; Fennell, R., 1004
- MacMillan, Stuart F.** See Detter, James C.
- McMurray, J. R.** See Kind, P. R. N.
- McNeely, M. D. D.** See Lustig, V.
- ; Pollard, A., 965
- McNicholl, B.** See Fottrell, Patrick F.
- MacQueen, J.** See Plaut, D.
- ; Giegel, J.; Driscoll, R., 970
- ; Plaut, D.; Klimley, P., 989
- ; Plaut, Kohan, M., 997
- McQueen, M. J.**, 177
- McTaggart, Wesley G.**; Dwyer, James L., 183
- Magnuson, Judith A.** See Cottrell, David B.
- Magri, A. D.** See D'Ascenzo, G.
- Malcolm, D. E.**; Trew, M. E., 1030
- Malkin, A.** See Horner, F.; Kellen, J. A.
- Malkus, H.**; Gannett, R.; Wunsch, C., 950
- ; Bukkapatnam, K.; Wunsch, C., 1010
- Mallikarjuna, Vayachari R.**, 260
- Mamer, O. A.**; Tjoa, S. S., 1013
- Mann, Lewis T., Jr.**; Bowers, George N., Jr., 999
- Marbach, Edward P.** See Boycks, Edward
- ; McLean, Monty; Scharn, Marilyn; Jones, Tom, 1810
- Marcovina, S.** See Peracino, A.
- Marcus, Martin**; Hollander, Melvin; Lucas, Robert E.; Pfeiffer, Norman C., 533
- Margolf, J.** See Engelhardt, A.
- Marich, Kenneth W.** See Glick, David
- Markey, Sanford P.** See Thompson, John A.
- Markowitz, E.** See Lo, D. H.
- Marshall, Janet** See Kanagasabapathy, A. S.; Wellby, M. L.
- Marshman, J.** See Sellers, E. M.
- Martin, J. C.** See Salzman, G. C.
- Marton, Laurence J.**; Lee, Patrick L. Y., 1721
- Mastrofrancesco, Balduino** See Cha, Chung-Ja Mo
- Mathews-Roth, Micheline M.**, 258
- Matousek, Jaroslav P.** See Garnys, V. P.
- Matthews, W. S.**; Sterling, R. E.; Flores, O., 1016
- Matusik, Edward**; Gibson, Thomas P., 1899
- Maurukas, J.** See Frajola, W. J.
- Mayall, B. H.** See Gray, J. W.
- May-Levin, F.** See Delarue, J. C.
- Meerkin, M.**; Thompson, M. McQueen; Stewart, Marion, 951
- Melville, Robert S.** See Scott, Charles D.
- Menache, R.** See Baadenhuijsen, H.
- Mendell, J. R.** See Silverman, Lawrence M.
- Mendelsohn, M. L.** See Gray, J. W.
- Mendez, Jean** See Keane, Paul M.
- Mendez, Jose**; Franklin, Barry; Gahagan, Harry, 768
- Menendez-Botet, C. J.**; Schwartz, M. K., 985
- Menzies, I. S.** See Laker, M. F.
- Meola, John M.** See Brown, Harold H.
- ; Brown, Harold H., 945
- Merced, D. W.**; Varat, M. A., 974
- Merced, Donald W.**; Varat, Murray A., 1088, 1102
- Mercier, Joan** See Lott, John A.
- Mertz, Walter**, 468
- Metrax, C.** See Letellier, G.
- Meuffels, Mary** See Hynie, Ivo
- Mhatre, R.** See Rubin, Martin
- Michaels, Sybil** See Boycks, Edward
- Midgley, A. R., Jr.** See Dieterle, R. C., Jr.
- Mihanovic, J.** See Naito, Herbert K.
- Mikac-Devic, D.** See Stankovic, H.
- Milano, Michael J.** See Pardue, Harry L.
- ; Pardue, Harry L., 211
- Milewski, Karen A.** See Tsung, Swee H.
- Miller, Carol A.**; Fetter, Marion C.; Boguslaski, Robert C., 1805
- Miller, R. C.** See Carey, R. N.
- Miller, W. G.**; Lott, John A.; Bhot, H. G., 968
- Miller, W. W.**; Quint, J.; Selesky, M., 1012
- Miller, William W.**; Bernett, George E.; Cawley, Leo P.; Oxley, Dwight K.; Palmer, David; Beckloss, Stan; Wilson, Christi, 952
- Minder, W.**, 1007
- Minkler, J.** See Gray, J. W.
- Minoli, Jolanda** See Rossi-Bernardi, Luigi
- Mirand, E. A.** See McGarry, M. P.
- Miras, Constantinos** See Kalofoutis, Anastasios
- Miron, M.** See Daignault, R.
- Mitchell, Frederick Lewis**, 933
- Mitchell, G.** See Soto, A. R.
- Mittelman, A.** See Tritsch, G. L.
- Miyada, D.** See Spiehler, V.
- Mizuno, K.** See Noma, A.; Okabe, H.
- Mogami, H.** See Nakata, Y.
- Mohan, M. S.**; Bates, Roger G., 864
- Mohr, E.** See Lent, R. W.
- Mollering, H.** See Gruber, W.
- Momcilovic, Berislav**; Belonje, Bartholomeus; Shah, Bhagwan G., 588
- Monforte, Joseph R.** See Valentour, James C.
- Montgomery, Mark R.**; Holtzman, Jordan L.; Leute, Richard K.; Dewees, John S.; Bolz, Gunner, 221
- ; Holtzman, Jordan L.; Leute, Richard K., 1323
- Moore, D. H., II** See Gray, J. W.
- Moore, James M.**, 1538
- Moore, Robert** See Horder, Mogens
- Moore, Robert E.**; Horder, Mogens; Quagliaroli, Nancy; Bowers, George N., Jr., 1031
- Moore, Robert W.** See Wearne, John
- Moorehead, W. R.**; Biggs, H. G.; Eiskamp, J. G.; Waltz, R., 964
- Moorehead, Wells R.** See Biggs, Homer G.; Jung, David H.
- ; Kasper, Linda M., 641
- Mordecai, B.** See Cummins, L. M.
- More, D. G.** See McCluskey, Susan B.
- Morejon, C.** See Soto, A. R.
- Morjona, C. B.**; Elkins, R. P.; Chambliss, K. W., 1011
- Morgan, A.** See Hannon, W. H.
- Morgan, H. G.** See Naghizadeh, F.; Packard, C. J.; Percy, R.
- Morgenstern, S.** See Furda, J.; Kessler, G.; Kim, J. C.
- ; Vlastelica, D., 996
- Morikawa, Mamiko** See Uete, Tetsuo
- Morin, Leo G.**; Vanderlinde, Raymond E., 271, 1490
- Morris, D. A. N.**; Smith, Melvin; Greyson, Jerome, 984
- Morrison, John F.** See Ellis, Keith J.
- Morton, J. M.** See Bostick, W. D.
- Moscr, Hugo W.** See Iwamori, Masao
- Moser, Russell J.**; Hollingsworth, Dorothy R., 347
- Moses, Godfrey**; Olivero, Edwin; Draisey, Thomas F., 428
- Moss, G. A.** See Bondar, R. J. L.
- ; Bondar, R. J. L., 988
- Moss, Gerald A.** See Rock, Robert C.
- ; Bondar, Richard J. L.; Buzzelli, Diane M., 1422
- Mousa, A. H.** See Abul-Fadl, M. A. M.
- Mrochek, John F.**; Dinsmore, Stanley R.; Waalkes, T. Phillip, 1314
- Mueller, Hiltrud** See Rao, Parinam S.
- Mueller, Marilyn A.** See Roerig, David L.
- Mueller, Ralph G.**; Lang, Gordon E.; Daskam, Jeneane M.; Lewis, Patricia J., 165
- Mueller, Rudolph G.** See Wearne, John
- ; Neville, Karen; Emerson, Diane D.; Lang, Gordon E., 268
- Mule, Salvatore J.**; Whitlock, Eileen; Jukofsky, Dennis, 81
- Mullaney, P. F.** See Salzman, G. C.
- Muller, D.** See Sinterhauf, K.
- Muller, E.** See Colombo, J. P.
- Muller, T.** See Sinterhauf, K.
- Muller-Beissenhirtz, W.**, 1003
- Mulvihill, Harold J.** See Butts, William C.
- Munan, L.**; Kelly, A.; Pettitclerc, C., 1008
- Munz, E.** See Stahler, F.; Wahlefeld, A.
- Murano, G.** See Calam, Roger R.
- Muscat, Vincent I.** See Frings, Christopher S.
- Museur, Gerard** See Bagrel, Alain
- Musiala, T. S.**; Dubin, A., 948
- Myrtle, James F.**; Zell, Wilbert J., 1469
- Naftholin, F.** See Kuhn, M.
- Naghizadeh, F.**; King, J.; Morgan, H. G., 997
- Nair, R. M. G.**; Colwell, J. A., 992
- Naito, Herbert K.**; Lewis, Lena A.; McCormack, Lawrence J.; Hofstetter, Grace; Mihanovic, J., 639
- ; Lewis, Lena A., 990, 1454
- Nakamura, R. M.** See Johnson, R. B.
- Nakamura, Robert M.** See Johnson, Roy B., Jr.
- Nakata, Y.** See Amitani, K.
- ; Sakamoto, Y.; Hori, M.; Akai, F.; Mogami, H., 1032
- Nambara, T.**; Shimada, K.; Hanabuchi, R., 1023
- Nandi, B. R.** See Dinovo, E. C.
- Napoli, Elena** See Belfiore, Francesco
- Narayanan, Sheshadri** See Peckasukas, Raymond A.
- Nash, J. Frank** See Brunson, Mary K.
- Nast, H. P.** See Lommer, D.
- Natelson, S.** See Century, B.; Koller, A.; Takahara, K.
- ; Giesel, A.; Webb, L. E., 1006
- Natelson, Samuel** See Koller, Anthony; Sherwin, John E.; Tomisek, Arthur J.
- Nath, A.**, 1013
- Neal, W. A.** See McGarry, M. P.
- Nealon, D. A.**; Henderson, A. R., 988
- Nealon, Daniel A.**; Henderson, Arthur R., 392
- ; Henderson, Arthur R., 1663
- Nechae, A.** See Tritsch, G. L.
- Nedzel, G. A.** See Goldberg, Jack M.
- Needham, Larry L.**; Kochhar, Man M., 169
- Neeley, W. E.**; Sing, H. C., 981
- ; Swinnen, M. E. T.; Wardlaw, S. C., 1006
- ; Sing, H. C.; Hollingsworth, W.; Ayer, V.; Yates, A. T.; Koettiz, S. E., 1006
- Neeley, William E.**; Sing, Helen C.; Yates, Tad, 1180
- Nelson, J. W.**; Gross, D., 970
- Nelson, John W.**; Batra, K. K., 125
- Nelson, V. A.**; Town, W. B., 1034
- Neri, Bruce P.**; Frings, Christopher S., 994
- Neubeck, Wolfgang**; Seidel, Dietrich, 853
- Neufeld, Elizabeth**, 937
- Neufeld, H. N.** See Clejan, S.
- Neville, Karen** See Mueller, Rudolph G.
- Newham, Simon J.** See Bultitude, Frederick W.
- Newman, H. A. L.**; Leighton, R. F.; Lanese, R.; Freedland, N. A., 953
- Ng, T. H.** See Tan, I. K.
- Nicely, Alfred** See Potter, Joseph L.
- Nichols, Albert** See Kao, Michael
- Nicholson, J. F.** See Pesce, M. A.
- Nicholson, John F.** See Pesce, Michael A.
- Nielsen, V. Gerhard**; Olsen, J. Steen, 977
- Nijm, W.**; Rubinstein, H. M.; Dietz, A. A., 1021
- Nino, Hipolito V.** See Anand, Vir D.; McLaren, Gordon D.
- Nipper, H. C.**, 994
- Nishibe, Hina**, 983
- Nishikaze, O.**; Furuya, E., 1023
- Niswender, G.** See Painter, K.

- Noldge, G. See Kruse-Jarres, J. D.
 Noma, A. See Okabe, H.
 —; Okabe, H.; Sakurada, T.; Mizuno, K., 1029
 Norris, K. A.; Atkinson, A. R.; Smith, W. G., 980
 Norris, Kenneth A.; Atkinson, Alan R.; Smith, William G., 1093
 Novrit, B.; Johnson, W.; Rush, R. L.; Barr, M., 964
 Nowlin, J. See Horning, Marjorie G.
 Nowlin, Jean See Horning, Marjorie G.
 Nugent, F. See George, H.
 Oas, Thomas H. See Detter, James C.
 Oberleas, Donald See Prasad, Ananda S.
 Oberman, Z. See Herzberg, M.
 O'Bryan, D. P.; Engel, R. H.; Harding, R. S., 942
 Ochoa, E. A., 1029
 O'Donnell, C. M.; Winefordner, J. D., 285
 O'Donnell, C. Michael; Li, Philip K.; Sweat, Dennis S.; Hartman, Burr C., 991
 Oelshlegel, Fred J., Jr. See Prasad, Ananda S.
 Oertel, G. W. See Schuy, E.
 —; Benes, P.; Bohlender, H., 982
 Ogata, M. See Sasaki, T.
 Ogilvie, Richard I. See Sitar, Daniel S.
 O'Halloran, M. W. See Welby, M. L.
 Ohmizu, Y. See Sasaki, T.
 Ohnesorge, W. E. See Todd, D. M.
 Okabe, H. See Noma, A.
 —; Sakurada, T.; Mizuno, K.; Noma, A., 1029
 Okuda, Kiyoshi See Fujii, Satoru
 Olerud, John E.; Clark, Donald L., 1654
 Olesen, H.; Date, J., 954
 —; Dybkaer, R., 976
 Oliver, Lawrence K., 1032
 Oliver, R. W. A., 638
 Olivero, Edwin See Moses, Godfrey
 Olsen, J. Steen See Nielsen, V. Gerhard
 Olusi, S. O.; McFarlane, H., 1020
 Ono, K. See Amanti, K.
 Onstad, Gerald See Bandt, Calvin
 Onstad, John; Hancock, Daniel; Wolf, Paul L., 898
 Oppenheimer, Jack H., 923
 Opplt, Jan J.; Glavaski, B. Simic; Bahler, R. C.; Opplt, M. A., 990
 Opplt, M. A. See Opplt, Jan J.
 Orrell, D. H. See Horrocks, R. H.
 Ortega, Jesus See Prasad, Ananda S.
 Osis, Dace See Spencer, Herta
 O'Sullivan, W. J. See McCluskey, Susan B.
 Otsuki, M. See Baba, S.
 Owen, G. M. See Garry, P. J.
 Owens, Christopher W. L.; Padovan, Walfredo, 1437
 Oxley, Dwight K. See Miller, William W.
 Ozenda, D. See Daigneault, R.
 Pachla, L. A. See Slaunwhite, W. David
 Pachla, Lawrence A. See Slaunwhite, W. David
 Packard, C. J.; Shepherd, J.; Lorimer, A. R.; Morgan, H. G.; Lawrie, T. D. V., 990
 Packard, Christopher J. See Shepherd, James
 Padovan, Walfredo See Owens, Christopher W. L.
 Pagast, P.; Schultz, R. M.; Balis, J. U., 1035
 Painter, K.; Hasler, M.; Niswender, G., 1023
 Pakarinen, A. J. See Kosunen, K. J.
 Paks, A. See Hever, O.
 Palmer, D. W. See Peters, T., Jr.
 Palmer, David See Miller, William W.
 Panek, Edwine See Siest, Gerard
 Pannall, P.; Iturralde, M.; Potgieter, G. M., 952
 Papadopoulos, Nicholas M.; Iammarino, Richard M., 2004
 Pardue, Harry See Chung, Henry F. M.
 Pardue, Harry L. See Chung, Henry F. M.; Hewitt, Thomas E.; Milano, Michael J.
 —; McDowell, Alan E.; Fast, Douglas M.; Milano, Michael J., 1192
 Parkhurst, George W. See Saifer, Abraham
 Paskey, T. A. See Laessig, R. H.
 Passey, R. B.; Gillum, R. L.; Fuller, J. B.; Carvajal, H., 1018
 —; Gillum, R. L.; Giles, M. L.; Fuller, J. B., 1033
 Passey, Richard; Gillum, Ronald L.; Giles, Mary Louise; Fuller, John B., 1107
 Passey, Richard B.; Gillum, Ronald L.; Fuller, John B., 1582
 Patel, Harini; Cohen, Burton D., 838
 Pauling, Linus See Dirren, Henri
 Pearson, M. J.; Wallace, E. M., 1005
 Peckauskas, Raymond A.; Portnoy, Alan L.; Narayanan, Sheshadri, 998
 Peckham, Maria See Davis, Raymond
 Peheim, E. See Colombo, J. P.
 Pehr, Frantisek, 1609
 Pekarek, Robert S.; Kluge, R. M.; DuPont, H. L.; Wannemacher, R. W., Jr.; Hornick, R. B.; Bostian, K. A.; Beisel, W. R., 528
 Pelleg, Amir; Levy, Gabor B., 1572
 Peltonen, Veikko See Adlercreutz, Herman
 Pennacchia, G. See Fleisher, M.
 Peracino, A.; Zoppi, F.; Marcovina, S.; Fenili, F., 965
 —; Fenili, D.; Marcovina, S.; Zoppi, F., 990
 Percy, R.; King, J.; Morgan, H. G., 1029
 Percy-Robb, I. W. See Strange, Richard
 Perkins, Arthur W. See Scott, Charles D.
 Perlstein, Marie T.; Thibert, R. J.; Zak, Bennie, 941
 Permisohn, Robert C. See Berman, Ann R.
 Perry, Andrew, 995
 Perry, B. See Greiff, D.
 Perry, Elizabeth F.; Koirtiyohann, S. Roy; Perry, H. Mitchell, Jr., 626
 Perry, H. Mitchell, Jr. See Perry, Elizabeth F.
 Perry, T. L. See Applegarth, D. A.
 Persijn, P. See Bernt, E.
 Persijn, Paul See Gerhardt, Willie
 Pesce, M. A.; Bodourian, S. H.; Nicholson, J. F., 982
 —; Bodourian, S. H.; Nicholson, J. F., 1015
 Pesce, Michael A.; Bodourian, Selma H.; Nicholson, John F., 1932
 Peters, J. E. See Burchardt, U.
 Peters, T., Jr.; Thomas, K. A.; Palmer, D. W.; Weaver, G. A.; Reed, R. G., 970
 Peters, Theodore, Jr. See Doumas, Basil T.
 Pettit, C. See Solomon, L.
 Petrus, E. A. See Goldberg, Jack M.
 Pettit, G. See Solomon, C.
 Pfeiffer, Norman C. See Marcus, Martin
 Pfafsky, Kenneth M. See Sitar, Daniel S.
 Pickup, John F.; Jackson, Malcolm J.; Price, E. Margaret; Healy, Michael J. R.; Brown, Stanley S., 1416
 Pierre, K. See Lie, R. F.
 Pinkerton, Cecil See Creason, John P.
 Pinto, N. See Zaidman, J. L.
 Pirke, K. M., 991
 Platt, Marvin S. See Jaberg, Clair
 Plaut, D. See MacQueen, J.
 —; Soto, A.; MacQueen, J., 968
 —; MacQueen, J.; Burns, R., 1016
 Plaut, Kohan, M. See MacQueen, J.
 Pochopien, Donald J., 894
 Poire, M. See Galteau, M. M.
 Pollard, A. See Lustig, V.; McNeely, M. D. D.
 Pollock, Anne See Grant, James K.
 Ponzo, O. See Winkler, J.
 Poole, A. J. See Horrocks, R. H.
 Poon, S. See Applegarth, D. A.
 Portnoy, Alan L. See Peckauskas, Raymond A., 2004
 Potgieter, G. M. See Pannall, P.
 Potter, Joseph L. See Jaberg, Clair
 —; Nicely, Alfred; Burnstine, Robert A., 1996
 Pottier, A. See Delvin, E. E.
 Poznanski, Wojciech Janusz See Hynie, Ivo
 Pragay, D. A. See Coolen, R. B.; Lo, D. H.
 Pragay, Desider A. See Weissman, Earl B.
 Prasad, Ananda S.; Schoemaker, Eric B.; Ortega, Jesus; Brewer, George J.; Oberleas, Donald; Oelshlegel, Fred J., Jr., 582
 Pratt, J. J.; Zettner, Alfred, 2002
 Prellwitz, W. See Gempp, W.; Groth, U.; Kapp, S.
 —; Gempp, W.; Kapp, S., 989
 Price, E. Margaret See Brown, Stanley S.; Pickup, John F.
 Price, M. See Fendley, Ted W.
 Proelss, Henning F.; Wright, Billy W., 694
 Prunty, F. T. G. See Bacchus, R. A.
 Pyle, R. B. See Yasmineh, W. G.
 Quagliaroli, Nancy See Moore, Robert E.
 Quint, J. See Miller, W. W.
 Rabinowitz, B. See Clejan, S.
 Rabuazzo, Agata M. See Belfiore, Francesco
 Radford, D. See Smith, A. F.
 Rafoth, Richard See Bandt, Calvin
 Raisinghani, Kanaya H.; Batayias, George E.; Storey, James D., 1035
 Ramakrishnan, S. See Rao, A. Venugopala
 Ramiz, A. S.; Rundell, C. A.; Knoblock, E. C., 948
 Randall, Henry T. See Cha, Chung-Ja Mo
 Rangno, Robert E. See Sitar, Daniel S.
 Rao, A. Venugopala; Ramakrishnan, S., 1523
 Rao, L. G. S., 1010
 Rao, Parinam S.; Lukes, James J.; Ayres, Stephen M.; Mueller, Hiltrud, 1612
 Rapic, N. See Felgenhauer, K.
 Ravel, Richard, 1801
 Reed, R. G. See Peters, T., Jr.
 Rehak, N. N.; Young, D. S., 1018
 Reich, Richard M. See Everse, Johannes
 Reid, R. W.; Ivory, D., 1000
 Reimer, Charles B., 934
 Reinhold, John G., 476
 Rej, Robert; Vanderlinde, Raymond E., 158
 —; Vanderlinde, Raymond E., 1028
 —; Fasce, C. F., Jr.; Vanderlinde, Raymond E., 1141
 —; Vanderlinde, Raymond E., 1585
 Reme, T.; Serrou, B., 985
 Rerabek, J. E., 983, 989
 Rey, Elisabeth; Gerbaut, Lucile; Lombart, Christian, 412
 Rice, E. G.; Wilson, C. S., 979
 Rice, E. W., 972
 Rice, Eugene W., 398
 Richards, A. H.; Lubinski, R. M.; Vanderlinde, R. E., 1018
 Richardson, K. E. See Chernoff, H. N.
 Richmond, W.; Jackson, M. J.; Brewer, N., 942
 Ridley, J. W. See Scott, P.
 Ridley, N. See George, H.
 Rietz, Bernd; Guilbault, George G., 715
 —; Guilbault, George G., 1788
 —; Guilbault, George G., 1791
 Rietz, E. Bernd See Guilbault, George G.
 Riggan, R. M. See Wenke, D. C.
 Rissen, Lance P. See McIntyre, Joyce A.
 Ritschard, W. See Dain, M. Le; Handschin, U. E.
 Ritzmann, Stephan E. See Daniels, Jerry C.; Kuno-Sakai, Harumi
 Roberts, J. See Solomons, C.
 Roberts, J. E. See Killingsworth, L. M.
 Roberts, Robert See Byrnes, Adrienne Clare; Henry, Philip D.
 Robinson, Arthur B. See Dirren, Henri
 Robinson, C. A., Jr.; Hopkins, Nancy Eddy; Siegel, A. L., 1017
 Robinson, C. Andrew See Rodriguez-Castellon, Jose A.
 Roche, Patrick A.; Bishop, Charles, 2000
 Rock, R. C.; Johnson, G. F., 975
 Rock, Robert C.; Shickers, Kenneth A.; Bondar, Richard J. L.; Moss, Gerald A., 166
 Rodbell, Martin, 923
 Rodgerson, Denis O.; Tietz, Norbert W., 1057
 Rodkey, F. Lee See Doumas, Basil T.
 —; Berk, Paul D., 998
 Rodriguez-Castellon, Jose A.; Robinson, C. Andrew; Smith, Mary S.; Frye, Joyce H., 1513
 Roels, Harry See Lauwers, Robert
 Roerig, David L.; Lewand, Donna L.; Mueller, Marilyn A.; Wang, Richard I. H., 672
 Roguljic, A.; Ruzdick, I., 1025
 Roka, L.; Koch, R., 998
 Rolland, M. O.; Dingenon, J.; Cotte, J., 1020
 —; Souillet, G.; Dotte, J., 1037
 Romero, P. See Schneider, A. L.
 Rosalki, Sidney B. See Gerhardt, Willie
 Roschlau, P.; Bernt, E.; Gruber, W., 941
 —; Gutmann, I.; Gruber, W., 979
 Rose, C. I.; Henderson, A. R., 956
 Rose, Clive I.; Henderson, Arthur R., 1619
 Rose, T. See Bondar, R. J. L.
 Rosenberg, T. See Gilboa, Y.
 Rosenfeld, L., 952
 Rosenfeld, Louis, 151
 Rosenfeld, R. S. See Cream, J.
 Rosenthal, Waldemar A. See Tsung, Swee H.
 Ross, Doris L. See Broughton, Alan
 Ross, P. M. See Applegarth, D. A.
 Ross, Robert; Horwitz, Charles A.; Hager, Hans; Usategui, Magdalena; Burke, M. Desmond; Ward, Patrick C. J., 139
 Rossi-Bernardi, Luigi; Luzzana, Massimo; Samaja, Michele; Davi, Mario; DaRiva-Ricci, Daniela; Minoli, Jolanda; Seaton, Brian; Berger, Robert L., 1747
 Roth, M., 1003
 Rothwell, D. J. See Doumas, B. T.
 Rubin, M. See Chakrin, A. L.
 Rubin, Martin, 919
 —; Schorr, J.; Knott, L., 977
 —; Mhatre, R.; Harmuth-Hoene, E.; Battistone, G. C., 995
 —; Boyd, N. J., 1026
 Rubinstein, H. M. See Nijm, W.
 Rubinstein, Herbert M. See Brown, Stanley S.
 Rudolph, Merritt C. See Stjernholm, Melvin R.
 Ruggiero, Marie See Levy, Susanna
 Rundell, C. A. See Knoblock, E. C.; Ramiz, A. S.
 —; Knoblock, E. C., 965
 Rush, R. L. See Novrit, B.
 —; Leitz, V. M., 966
 Rush, Robert A.; Kinder, Shmuel H.; Udenfriend, Sidney, 148
 Russell, Diane H.; Russell, Shauna D., 860
 Russell, Paul T.; Eberle, Andrea J.; Cheng, Hsien C., 653
 Russell, Shauna D. See Russell, Diane H.
 Rutherford, Frederick J. See Seth, John
 Rutner, H. See Akerkar, A. S.
 Ruzdick, I. See Roguljic, A.
 Ryan, P. L., 1041
 Ryan, W.; McLean, M.; Hearn, D.; Flores, O.; Sterling, R., 1037
 Ryan, William T. See Gochman, Nathan
 Sadowska, H.; Sawicki, Z.; Czorniuk, A.; Krawczynski, J., 958

- Saeki, S. See Baba, S.
 Saga, M. See Kanno, T.
 Sagan, A.; Krawczynski, J., 978
 Sage, Gloria W., 452
 Sage, Gloria Welt; LeFever, David; Henry, John Bernard, 850
 Sahawneh, T. See Vasilades, John
 Saifer, A., 1013
 Saifer, Abraham; Parkhurst, George W.; Amoroso, June, 334
 Sakai, Hideto See Kuno-Sakai, Harumi
 Sakamoto, Y. See Amitani, K.; Nakata, Y.
 Sakurada, T. See Noma, A.; Okabe, H.
 Saloom, Joe See Frings, Christopher S.
 Salzman, G. C.; Crowell, J. M.; Goad, C. A.; Hansen, K. M.; Hiebert, R. D.; LaBauve, P. M.; Martin, J. C.; Ingram, M. L.; Mullaney, P. F., 1297
 Samaja, Michele See Rossi-Bernardi, Luigi
 Samejima, K. See Tamura, Z.
 Sampson, Eric J.; Demers, Laurence M.; Kreig, Arthur F., 1002
 —; Demers, Laurence M.; Kreig, Arthur F., 1983
 Sancho, H. See Delarue, J. C.
 Sanders, G. T. B.; Thornton, W. E.; Kroese, A. B. A., 959
 Sansur, M. See Horvath, C.; Leon, L. P.
 Sansur, Musa See Brown, Harold H.
 Sarkozi, L.; Kovacs, H. Nagy; Szell, K.; Fox, H. A., 950
 Sasaki, T. See Hata, K.
 —; Tanemura, K.; Ohmizu, Y.; Ogata, M.; Yasuoka, H., 996
 Saunders, R. A. See Henry, P., 964
 Savory, J. See Buffone, G. J.; Cross, R. E.; Hammond, J. E.; Heintges, M. G.; King, S. W.; Shippe, J. R.; Toffaletti, John; Wentz, P. W.; White, R. M.
 Savory, John See Buffone, Gregory J.
 Sawicki, Z. See Klopocki, T.; Sadowska, H.
 Sawin, Clark T. See Silbert, Cynthia K.
 Saylor, R. See MacIn, E.
 Schafer, A. See Vecsei, P.
 Schaffer, Robert, 933
 Schalkwijk, P. v. See Elion-Gerritzen, W. E.
 Scharf, S. See Axer, A.; Leiba, I. H.
 Scharn, Marilyn See Marbach, Edward P.
 Scharpe, S.; Eid, M.; Lauwers, A.; Cooreman, W., 985
 Scheben, U. See Schuy, E.
 Scheibe, P. See Gutmann, I.
 Schicketanz, K. H. See Kapp, S.
 Schiele, F. See Siest, G.
 Schiele, Françoise See Siest, Gerard
 Schiller, H. S.; Petra, P. H., 1024
 Schiller, Harvey S. See Anderson, Peter H.; Lee, Lilian M. Y.
 Schliep, G. See Felgenhauer, K.
 Schmidt, F. See Siede, W. H.
 Schmidt, Robert M. See Koepke, John A.
 Schmidt-Gayk, H.; Hauelsen, H.; Stengel, R.; Hufner, M., 993
 Schmitz, J. See Lie, R. F.
 Schmulting, R.-M.; Graser, W.; Eggstein, M., 962
 Schneider, A. See Giegel, J.
 Schneider, A. L. See Edwards, G. C.
 —; Edwards, G. C.; Romero, P., 963
 Schneider, R. S. See Chang, J. J.
 Schollmeyer, J. D. See Sturm, G.
 Schoomaker, Eric B. See Prasad, Ananda S.
 Schorr, J. See Rubin, Martin
 Schosinsky, Karl H.; Lehmann, H. Peter; Beeler, Myrton F., 757
 Schramm, C. See Haug, H.
 Schroeder, W. A. See Abraham, E. C.
 Schultz, R. M. See Pagast, P.
 Schuttringer, G. See Zinterhofer, L.
 Schuurs, A. H. W. M. See Bosch, A. M. G.
 Schuy, E.; Scheben, U.; Oertel, G. W., 1033
 Schwartz, M. K. See Fleisher, M.; Menendez-Botet, C. J.
 Schwartz, Samuel See Ahlquist, David Alan
 Schwartz, T. See Hassemer, D.; Laessig, R.
 Schwenk, Robert; Kelly, Kenneth; Tse, Kam S.; Sehon, Alec H., 1059
 Scott, Charles D.; Melville, Robert S., 1191
 —; Lee, Norman E.; Perkins, Arthur W., 1217
 Scott, P.; Andrews, D. J.; Atkin, G. E.; Ridley, J. W.; Scott, P. H., 1003
 Scott, P. H. See Scott, P.
 Scrivner, Charles R., 920
 Searcy, R. L. See Starkweather, W. H.
 Seaton, Brian See Rossi-Bernardi, Luigi
 Seet, A. M. See Tan, I. K.
 Segal, R. See Kapur, B. M.
 Segura, R.; Gatto, A. M., 991
 Sehon, Alec H. See Schwenk, Robert
 Seidel, D.; Eckel, W.; Heuck, C. C., 989
 Seidel, Dietrich See Neubeck, Wolfgang
 Seiffert, U. B. See Siede, W. H.
 —; Kremer, H., 949
 Selesky, M. See Miller, W. W.
 Seligson, David See Sommers, Philip B.
 Sellers, E. M.; MacLeod, S. M.; Kapur, B.; Marshman, J.; Tapleton, C., 973
 Serrou, B. See Reme, T.
 Seth, John; Rutherford, Frederick J.; McKenzie, Ian, 1406
 Sgoutas, D. See Donohue, J.
 Sgoutas, Demetrios See Donohue, John
 Shafer, Rex B. See Shaw, William
 Shah, Bhagwan G. See Momcovic, Berislav
 Shamberger, R. J.; Tytko, S. A.; Willis, C. E., 955
 Shapiro, S. I. See Ertingshausen, G.
 Shapiro, Stephen I. See Ertingshausen, Gerhard
 Shaw, L. M.; London, J. W.; Fetterhoff, D. E.; Garfinkel, D., 1028
 Shaw, Leslie M. See London, Jack W.
 Shaw, S. M. See Farid, Nagy A.
 Shaw, William; Holtzman, Jordan L.; Shafer, Rex B., 636
 Sheehan, Michael; Haythorn, Pat, 945
 Shenkin, A., 956
 Shepherd, J. See Bedford, B. D. K.; Packard, C. J.; Smith, G.
 Shepherd, James; Packard, Christopher J.; Dryburgh, Frances J.; Third, Jane L. H. C., 1887
 Sher, P. P. See Chakrin, A. L., 977
 Sherwin, John E.; Natelson, Samuel, 230
 Shihabi, Z. K., 1567
 Shimada, K. See Nambara, T.
 Shimano, Noriko See Uete, Tetsuo
 Shippe, J. R.; Savory, J., 974
 Shirey, T. L. See Lo, D. H.
 Shrivastava, K.; D'Angelo, M.; Sun, S., 950
 Shubin, Herbert See Boycks, Edward
 Sidell, Frederick R.; Kaminskis, Andris, 1393
 —; Kaminskis, Andris, 1961
 Siede, W. H.; Schmidt, F.; Seiffert, U. B., 968
 Siegel, A. L. See Robinson, C. A., Jr.
 Siest, G. See Galteau, M. M.
 —; Galteau, M. M.; Schiele, F.; Brochet, J. C., 168
 —; Houot, O.; Henny, J., 1007
 Siest, Gerard See Bagrel, Alain
 —, 925
 —; Schiele, Françoise; Galteau, Marie-Madeleine; Panek, Edwige; Steinmetz, Josiane; Fagnani, Francis; Gueguen, Rene, 1077
 Silbert, Cynthia K.; Sawin, Clark T., 1520
 Silver, J. D. See Yarmosh, D. F.
 Silverman, Lawrence M.; Gruemer, H.-D.; Mendell, J. R., 1026
 Silverman, Morris See Kesner, Leo
 Simkins, A.; Worth, H. G. J., 1009
 Sims, G. M. See Endahl, G. L.
 Sine, H. E. See Chakrin, A. L.; D'Souza, J. P.; Kubasik, N. P.
 Sine, Harrison E. See Kubasik, Norman P.; Volosin, Michael T.
 Sing, H. C. See Neelley, W. E.
 Sing, Helen See deBaare, Larissa
 Sing, Helen C. See Neeley, William E.
 Singh, Parminder See Applegarth, Derek A.
 Sinterhauf, K. See Lommer, D.
 —; Muller, T.; Spira, H. J.; Muller, D.; Lommer, D., 993
 Sitar, Daniel S.; Pfafsky, Kenneth M.; Rangno, Robert E.; Ogilvie, Richard L., 1774
 Sivakumaran, Thillainathan, 639
 Sjoquist, J. See Hellsing, K.
 Slaunwhite, D. A. See Wenke, D. C.
 Slaunwhite, W. David; Wenke, D. C.; Chilcote, M. E.; Kissinger, P. T.; Pachla, L. A., 1015
 —; Pachla, Lawrence A.; Wenke, David C.; Kissinger, Peter T., 1427
 Sleeman, H. Kenneth; Cella, James A.; Harvey, Johnnie L.; Beach, Douglas J., 76
 Slickers, Kenneth A. See Rock, Robert C.
 Smeets, Jan See Lauwers, Robert
 Smith, A. F.; Radford, D.; Wong, C. P., 975
 Smith, Barbara A. See Kitagawa, Teruo
 Smith, D. A. See Walker, M. S.
 Smith, G.; Shepherd, J., 972
 Smith, G. L.; Wilson, G. S., 978
 Smith, I. D. See Cummins, L. M.
 Smith, J. See Hannon, W. H.
 Smith, Mary S. See Rodriguez-Castellon, Jose A.
 Smith, Melvin See Morris, D. A. N.
 Smith, Roger P.; Groff, William A., Sr., 269
 Smith, W. G. See Norris, K. A.
 Smith, William G. See Norris, Kenneth A.
 Sneath, Thomas C. See Jain, Naresh C.
 Snyder, L. See Furda, J.; Horvath, C.; Kessler, G.; Leon, L. P.
 Sobel, Burton E. See Byrnes, Adrienne Clare; Henry, Philip D.
 Solomon, H. M. See Least, C. J., Jr.
 Solomon, Harvey M. See Catalano, Edward W.; Dechtiaruk, Walter; Johnson, George F.; Least, Charles J., Jr.
 Solomons, C.; Armstrong, D.; VanWormer, D.; Roberts, J.; Golbus, M.; Pettit, G., 1014
 Solomons, Clive C. See Armstrong, Donald
 Sommer, Kathleen See Horning, Marjorie G.
 Sommers, Philip B.; Jatlow, Peter I.; Seligson, David, 703
 Soni, R. See Verjee, Z. H.
 Soto, A. See Plaut, D.
 Soto, A. R. See Castellanos, M. E.
 —; Brotherton, M.; Castellanos, M.; Chambliss, K. W., 959
 —; Brotherton, M.; Castellanos, M. E.; Chambliss, K. W., 966
 —; Morejon, C.; Mitchell, G.; Chambliss, K. W., 1035
 —; Brotherton, M.; del Valle, O.; Castellanos, M. E.; Chambliss, K. W., 1036
 Souillet, G. See Rolland, M. O.
 Speeche, Albert See Versieck, Jacques
 Spellman, Carmel M.; Fottrell, Patrick F., 956
 Spence, Matthew W., 937
 Spencer, Herta; Osis, Dace; Wiatrowski, Emilie, 613
 Spiehler, V.; Sun, L.; Miyada, D.; Jessen, B., 946
 Spiekerman, A. M.; Hetherly, Melvin E.; Hall, Frank F., 1980
 Spierto, F. W. See Hannon, W. H.
 Spiza, H. J. See Sinterhauf, K.
 Spitzer, Ralph W. See Chow, Chiman
 Srebro, S. See Welch, M.
 Srivastava, L. M. See Agarwal, D. P.
 Staehler, F. See Zwee, W.
 Stafford, M. See Horning, Marjorie G.
 Stahler, F. See Bern, E.
 —; Munz, E., 972
 Stamm, Dankwart, 925
 Standaert, Fontaine See Klein, Bernard
 Stankovic, H.; Mikac-Devic, D., 995
 Stapleton, C. See Sellers, E. M.
 Starkweather, W. H.; Searcy, R. L., 968
 Stasiw, R. See Kim, J. C.
 Statland, Bernard, 922
 Statland, Bernard E. See Winkel, Per
 Stavljenic, A. See Vuletic, S.
 —; Vuletic, S., 958
 Steele, Bernard W.; Koehler, Donald F.; Blaszkowski, Thomas P.; Azar, Miguel, 1812
 Steen, Goran See Lindstedt, Sven
 Steensgaard, J. See Funding, L.
 Stefaniwski, Andrew See Joselow, Morris M.
 Steige, H.; Jones, J. D., 960
 Steiman, Y. See Leiba, I. H.
 Steinman, Charles R., 407
 Steinmetz, Josiane See Siest, Gerard
 Steinmetz, L. L. See Gray, J. W.
 Stellner, K. See Kleinhammer, G.
 Stengel, R. See Schmidt-Gayk, H.
 Stephen, R. See Belton, N. R.
 Sterling, R. See Ryan, W.
 Sterling, R. E. See Matthews, W. S.
 Sterling, Rex E. See Gochman, Nathan
 Sternberg, J. C. See Buzza, E.
 Sternberg, James C., 1037
 Stevens, Michael D.; MacKenzie, William F., 995
 Stewart, Charles C. See Doumas, Basil T.
 Stewart, Marion See Meekin, M.
 Stewart, P. M. See Whitfield, J. B.
 —; Hensley, W. J., 959
 Stiefel, Doris J.; Keller, Patricia J., 343
 Stjernholm, Melvin R.; Elsever, Robert N.; Rudolph, Merritt C., 1388
 Stok, W. See Elion-Gerritzen, W. E.
 Stokke, O. See Eldjarn, Lorentz
 Storer, James S. See Knights, Brian A.
 Storey, G. N. B. See McCluskey, Susan B.
 Storey, James D. See Raisinghani, Kanaya H.
 Strandjord, Paul E. See Clayton, Kathleen J.
 Strange, Richard; Percy-Robb, I. W., 986
 Strasser, B.; Zinterhofer, L., 946
 Stromme, J. H.; Borud, O., 949
 Strong, James See Broughton, Alan
 Stronge, J. See Kenny, R.
 Stuart, J. F.; Kelly, A. M., 949
 Stuart, Judith See Keane, Paul M.
 Sturm, G.; Wesemann, W.; Schollmeyer, J. D., 1027
 Sullivan, James F. See Burch, Robert E.
 Sun, L. See Spiehler, V.
 Sun, S. See Shrivastava, K.
 Surman, F. William, Jr. See Asato, Noritake
 Sunshine, Irving See Valentour, James C., 931
 Surin, D. See Liew, C. C.
 Suezka, B.; Chmiel, J., 1027
 Sutherland, Earl W., III See Werner, Mario
 Sweat, Dennis S. See Li, Philip K.; O'Donnell, C. Michael

- Sweat, R. L. See Twomey, S. L.
 Swinnen, M. E. T. See Neeley, W. E.
 Szasz, G., 987
 —; Busch, E.-W., 1008
 Szell, K. See Sarkozi, L.
 Taher, Y. See Abul-Fadi, M. A. M.
 Takada, A. See Feuer, G.
 Takahara, K.; Natelson, S., 979
 Takahashi, Z.; Hayashi, C., 971
 Takeuchi, Nozomu See Yamamura, Yuichi
 Talmor, Nira See Fischl, Joseph
 Tamura, Z.; Yoshioka, M.; Imanari, T.; Samejima, K.; Chen, C. T., 1027
 Tan, I. K.; Chio, L. F.; Seet, A. M.; Ng, T. H.; Chan, S. K., 950
 —; Seet, A. M., 983
 Tanaka, Koshiro See Fujii, Satoru
 Tanemura, K. See Sasaki, T.
 Tarbit, Ian F., 1548
 Tardif, Robert See Chakrabarti, Saroj K.
 Tarplee, S. See Chinh, Nguyen H.
 Telischak, Z. See Usategui-Gomez, M.
 Temler, R.; Felber, J. P., 992
 Thibert, R. J. See Bass, K. G.; Feldkamp, C. S.; Perlstein, Marie T.; Watkins, R.
 Thiers, Ralph E. See Wu, Gaw Tzu
 Thord, Jane L. H. C. See Shepherd, James
 Thomas, James F. See Koepke, John A.
 Thomas, D. W.; Hamnett, B.; Chalmers, A. R.; Edwards, J. B.; Edwards, R. G., 957
 Thomas, K. A. See Peters, T., Jr.
 Thompson, John A.; Fennessey, Paul V.; Markey, Sanford P., 1892
 Thompson, M. McQueen See Meerkin, M.
 Thornton, W. E. See Sanders, G. T. B.
 Thulin, H. See Burchardt, U.
 Thuman, Walter See Lizana, Jorge
 Tietz, Norbert W. See Rodgeron, Denis O.
 Tizado, J. See Winkler, J.
 —; Winkler, J., 1020
 Tjoa, S. S. See Mamer, O. A.
 Todd, D. M.; Flood, J. G.; Ohnesorge, W. E., 999
 Todd, John K. See Chooi, Michael K.
 Todd, W. A., Jr. See Yarmosh, D. F.
 Toffaletti, John; Savory, J., 993
 Tomisek, Arthur J.; Winkler, Edward M.; Natelson, Samuel, 730
 Tonks, D. B. See Koch, P.
 —; Koch, P., 1004
 Toren, E. C., Jr. See Kudirka, P. J.
 Toren, E. Clifford, Jr. See Busby, Michael G.; Cembrowski, George S.; Cottrell, David B.; Kudirka, Paul J.
 Toseland, P. A.; Wickham, Janet, 1016
 Toseland, Patrick A.; Aibani, Michael; Gauchel, Franz D., 98
 Toth, Janice M. See Lutz, Paul H.
 Tovarek, J. See Fischer, J.
 Town, W. B. See Nelson, V. A.
 Tracey, Thomas J., 787
 Trafton, John E.; Bedard, John F., Jr.; Haynes, Royce, 979
 Treiber, Laszlo R., 1846
 Trew, J. A. See Laxdal, V. A.
 Trew, M. E. See Malcolm, D. E.
 Tritic, G. L.; Nechaev, A.; Mittelman, A., 984
 Troupin, Allan S. See Friel, Patrick
 Tse, Kam S. See Schwenk, Robert A.
 Tsung, Swee H.; Rosenthal, Waldemar A.; Milewski, Karen A., 1063
 Turner, Kathie See Lott, John A.
 Twomey, S. L.; Sweat, R. L.; Bennett, G. E., 985
 Twomey, Stanley L. See Wu, Gaw Tzu
 —; Bennett, George E., 1903
 Tygstrup, Niels See Winkler, Per
 Tytko, S. A. See Shamberger, R. J.
 Uchida, Kiyohisa See Yamamura, Yuichi
 Udenfrenk, Sidney See Rush, Robert A.
 Uete, Tetsuo; Shimano, Noriko; Morikawa, Mamiko, 1632
 Uhl, James M. See Blaedel, Walter J.
 Uldall, A., 991
 Ullman, E. F.; Blakemore, J.; Leute, R. K.; Eimstad, W.; Jaklitsch, A., 1011
 Updike, Stuart J. See Cottrell, David B.
 Urzua, Miguel A. See Gutierrez-Hidalgo, Esther
 Usategui, Magdalena See Ross, Robert
 Usategui-Gomez, M.; Heveran, J. E.; Cleeland, R.; McGhee, B.; Telischak, Z.; Awdziej, T.; Grunberg, E., 1378
 Valente, D. See Vanzetti, G.
 —; Vanzetti, G., 1009
 Valenti, A. See Winkler, J.
 Valentour, James C.; Monforte, Joseph R.; Lorenzo, Beverly; Sunshine, Irving, 1976
 Vandemark, F. L.; Adams, R. F., 973
 Van den Camp, R. A. M. See Maas, A. H. J.; Veefkind, A. H.
 Vanderlinde, R. E. See Richards, A. H.
 Vanderlinde, Raymond E. See Morin, Leo G.; Rej, Robert
 van der Rest, M. See Crawhall, J. C.
 van der Vijgh, W. J. F., 1172
 Van Dilla, M. A. See Gray, J. W.
 Van Hell, H. See Bosch, A. M. G.
 Van Kley, H.; Claywell, C.; Hansen, H. R.; Knight, W. A., Jr., 1024
 Van Norman, John D. See Gennaro, William D.
 van Schalkwijk, W. P. See Elion-Gerritzen, W. E.
 van Soestbergen, Maria See Asato, Noritake
 Van Vaerenbergh, P. M. See Cosyns-Duyck, M. Cl.
 van Weemen, B. K. See Bosch, A. M. G.
 Van Wormer, D. See Solomons, C.
 Van Wormer, Dale See Armstrong, Donald
 Vanzetti, G.; Valente, I., 993
 Varady, R. See Kessler, G.
 Varat, M. A. See Mercer, D. W.
 Varat, Murray A. See Mercer, Donald W.
 Vasiliades, J., 1002
 Vasiliades, John; Sahawneh, T., 637
 Vecchio, Luigi Lo See Belfiore, Francesco
 Vecsei, P.; Schafer, A.; Faulstich, H.; Viehauer, W.; Will, H.; Kapp, S., 1022
 Veefkind, A. H. See Maas, A. H. J.
 —; Van den Camp, R. A. M.; Maas, A. H. J., 685
 —; Van den Camp, R. A. M.; Maas, A. H. J., 981
 Velletri, Kimberly; Griffiths, William C.; Diamond, Israel, 1837
 Verbruggen, Ronald, 5
 Verjee, Z. H.; Soni, R.; Wibowo, N. O., 1030
 Versieck, Jacques; Barbier, Fabrice; Speeche, Albert; Hoste, Julien, 578
 Vesell, Elliott S., 931
 Vestergaard, Per; Bachman, Alvin, 1270
 Vielhauer, W. See Vecsei, P.
 Vinson, Joe A.; Koharscheck, Harry; Hooyman, Jane E.; Holmes, Margaret M., 945
 Vlastelica, D. See Morgenstern, S.
 Voelter, Wolfgang; Bauer, Herman, 1882
 Vohman, M. Darius See Chinh, Nguyen H.
 Voia, Sandra See Kao, Michael
 Voipio, Tauno See Adlercreutz, Herman
 Volini, Frederick See Jibril, Abbas
 Volosin, M. T.; Kubasik, N. P., 994
 Volosin, Michael T. See Kubasik, Norman P.
 —; Kubasik, Norman P.; Sine, Harrison E., 1986
 Voshall, David See Grady, Harold
 Voshall, David L.; Hunter, Lynda; Grady, Harold J., 402
 Vuletic, S. See Stavljenic, A.
 —; Stavljenic, A., 1033
 Vyvial, Theona M. See Daniels, Jerry C.
 Waalkes, T. Phillip See Mrochek, John E.
 Wada, Masahisa See Fujii, Satoru
 Wadel, Orlando P. See Jiang, Nai-Siang
 Wahlefeld, A.; Klose, S.; Munz, E., 942
 Wakabayashi, M., 978
 Waldrop, Nancy T. See Frings, Christopher S.
 Walfish, P. G. See Clapp, J. J.
 Walker, M. S.; Smith, D. A., 1014
 Walker, William H. C. See Keane, Paul M.
 Wallace, E. M. See Pearson, M. J.
 Wallwork, J. C. See McFarlane, H.
 —; McFarlane, H., 984
 Walter, U. See Lommer, D.
 Waltz, R. See Moorehead, W. R.
 Wang, Richard I. H. See Roerig, David L.
 Wannemacher, R. W., Jr. See Pekarek, Robert S.
 Ward, A. Milford See Ellis, G.
 Ward, Patrick C. J. See Ross, Robert
 Wardlaw, S. C. See Neeley, W. E.
 Wardlaw, Stephen C., 1667
 Warnock, L. G., 432
 Warren, Brenda L. See Evenson, Merle A.
 Wasson, Gertrude W. See MacKinney, Archie A., Jr.
 Watanabe, August M. See Besch, Henry R., Jr.
 Waterman, Cleveland S.; Atkinson, Earl E., Jr.; Wilkins, Bert, Jr.; Fischer, Craig L.; Kimzey, Steve L., 1201
 Watkins, R.; Feldkamp, C. S.; Thibert, R. J.; Zak, Bennie, 1002
 Watson, J. S. See Burtis, C. A.
 Wearne, John; Moore, Robert W.; Caplan, Brigitte; Mueller, Rudolph G., 1343
 Wease, Dorothy F.; Espinosa, Eli S.; Anderson, Yvonne J., 1430
 Weatherburn, M. W.; Logan, J. E.; Allen, R. H., 961
 Weaver, G. A. See Peters, T., Jr.
 Webb, L. E. See Natelson, S.
 Weber, George, 926
 Wei, R.; Boyd, N., 1024
 Wei, Max Harry See Roycks, Edward
 Weinberger, Miles; Chidsey, Charles, 834
 Weinhardt, F. See Berlet, H. H.
 Weisberg, Harry F.; Dorwart, W. V.; Chalmers, L., 1182
 Weissman, Earl B.; Pragay, Desider A.; Bishop, Charles, 264
 Wellby, M. L. See Kanagasabapathy, A. S.
 —; O'Halloran, M. W.; Marshall, Janet, 1012
 Welsh, M.; Srebro, S., 963
 Wenke, D. C. See Lo, D. H.; Slaunwhite, W. David
 —; Slaunwhite, D. A.; Kissinger, P. T.; Riggins, R. M., 1016
 Wenke, David C. See Slaunwhite, W. David
 Wentz, P. W. See Cross, R. E.
 —; Savory, J.; Cross, R. E., 941
 —; Savory, J.; Cross, R. E., 961
 Werner, Mario; Sutherland, Earl W., III; Abramson, Fred P., 1368
 Wesemann, W. See Sturm, G.
 Westgard, J. See Hassemer, D.; Laessig, R.
 Westgard, J. O. See Carey, R. N.; Carlson, I. H.; Eggert, A. A.
 Westgard, James O. See Cembrowski, George S.
 White, James M. See Anand, Vir D.
 White, James W. See Doumas, Basil T.
 White, N. H. See Driscoll, R. C.
 White, R. M.; Buffone, G. J.; Savory, J.; Killingsworth, L. M., 1021
 Whitehead, T. P., 918
 Whithurst, Philip; Di Silvio, Thomas V.; Royadjian, Gaydzag, 87
 Whitfield, J. B.; Stewart, P. M.; Hensley, W. J., 981
 Whitlock, Eileen See Mule, Salvatore J.
 Whittaker, Nadine See Bucolo, Giovanni
 Wiatrowski, Emilie See Spencer, Herta
 Wickham, Janet See Toseland, P. A.
 Wicks, Richard See Davis, Raymond
 Widdowson, Graham M. See Gochman, Nathan
 Wieme, R. J.; De Broe, M. E., 956
 Wien, George H. See Lenz, Paul H.
 Wilkins, Bert, Jr. See Waterman, Cleveland S.
 Wilkinson, J. Henry, 938
 Will, H. See Vecsei, P.
 Willard, Rodney E.; Kuno-Sakai, Harumi, 1039
 Williams, Robert V. See Burch, Robert E.
 Willis, C. E. See Shamberger, R. J.
 Wilkie, T. A. See Krause, R. D.
 Wills, M. R.; Jenkins, M. V., 960
 Wilson, C. S. See Rice, E. G.
 —; Barrett, M. J., 947
 Wilson, Christi See Miller, William W.
 Wilson, G. S. See Smith, G. L.
 Winkler, J. See Tizado, J.
 —; Ponzo, O.; Valenti, A.; Derdac, V.; Tizado, J., 956
 Winefordner, J. D. See O'Donnell, C. M.
 Winkel, Per; amsoe, Klavs; Lyngbye, Jorgen; Tygstrup, Niels, 71, 921
 —; Statland, Bernard E.; Bokelund, Henning; Johnson, Eugene A., 1592
 Winkler, Edward M. See Tomisek, Arthur J.
 Winsten, Seymour See Dalal, Fram R.
 Wisdom, G. Brian, 936
 Witte, D. L. See Feld, R. D.
 Wolf, Paul L. See Onstad, John
 Wong, C. See Chow, C.
 Wong, C. P. See Smith, A. F.
 Wong, Herbert K. C., 169
 Wong, J. H.; Baines, A. D., 952
 Wong, Pui-Yuen; Wood, Donald E.; Johnson, Thomas, 206
 Wong, William H., 216
 Woo, J.; Cano, C., 1003
 Wood, Donald E. See Wong, Pui-Yuen
 Woodard, Linda L. See Killingsworth, Lawrence M.
 Woodbridge, J. Eliot See Dalal, Fram R.
 Worsley, B. See McFarlane, H.
 Worth, H. G. J. See Simkins, A.
 Worth, Howard G. J. See Badham, Linda P.
 Wretling, Arvid, 929
 Wright, Billy W. See Proelss, Henning F.
 Wu, Gaw Tzu; Twomey, Stanley L.; Thiers, Ralph E., 315
 Wunsch, C. See Malkus, H.
 Wyngaarden, James B., 926
 Wysokinska-Borowicz, A. See Klopocki, T.
 Yabut, Juanito See Bucolo, Giovanni
 Yamagata, Shigenori See Fujii, Satoru
 Yamamura, Yuichi; Uchida, Kiyohisa; Takeuchi, Nozomu, 927
 Yamane, T. See Lamola, Angelo A.
 Yarmosh, D. F.; Gibson, A. S.; Dash, H. H.; Todd, W. A., Jr.; Silver, J. D.; Boyle, E., Jr., 1027
 Yasmineh, W. G.; Hanson, N. Q.; Pyle, R. B., 975
 Yasmineh, Walid G.; Hanson, Naomi Quast, 381
 Yasuoka, H. See Sasaki, T.
 Yates, A. T. See Neeley, W. E.
 Yates, Tad See Neeley, William E.
 Yatizidis, Hippocrates, 447, 1848
 Yeoman, D. K. See Bacchus, R. A.
 Yoshioka, M. See Tamura, Z.

Young, D. S. See Rehak, N. N.

—, 922

Yount, W. J. See Killingsworth, L. M.

Yuu, H. See Baba, S.

Zachariassen, Hans; Andersen, Ivar; Kostol,
Carl; Barton, Richard, 562

Zafari, Y. See Dezfulian, M.

Zaidman, J. L. See Axer, A.; Gilboa, Y.; Leiba,
I. H.

—; Pinto, N., 1032

—; Pinto, N.; Eidelman, A., 1034

Zak, Bennie See Feldkamp, C. S.; Perlstein,

Marie T.; Watkins, R.

Zamcheck, Norman, 934

Zborowski, G. See Ertingshausen, G.

Zborowski, George See Ertingshausen, Gerhard

Zell, Wilbert J. See Myrtle, James F.

Zettner, Alfred See Pratt, J. J.

—; Duly, Peggy E., 1927

Ziegenhorn, J. See Hagen, A.

Ziegenhorn, Joachim See Haid, Erich

—, 1627

Zinterhofer, L. See Strasser, B.

—; Schuttringer, G., 1013

Zlatkis, A.; Liebich, H. M., 1001

Zlatkis, Albert See Liebich, Hartmut M.

Zoppi, F. See Peracino, A.

Zwez, W.; Hagen, A.; Staehler, F., 948

Volume 21, 1975

SUBJECT INDEX

KEY TO ABBREVIATIONS

A, abstract of meeting paper
CR, case report
E, editorial
H, history

L, letter
O, opinion
obit, obituary
R, review

S, symposium paper
SM, Selected Method
SN, scientific note
SR, special report

AACC

AACC-ACS relations, 276
ACCENT program, 644
annual awards, 793
Gerulat Award, 458
local section involvement in a B.S. clin. chem. program (A), 954
local section officers, 1975, 1050
National meeting, 1976, 2012
newsletter, 797
Officers Elected, Constitution and Bylaws changed, 2012
origin, history of Midwest section, 1352
Pine Mountain conference, 1047
Pine Mountain Conference, 1st, 179
Second Pine Mountain Conference: announcement, 1696

Abused drugs

See Drug assay, Toxicology

Accuracy

See Analytical error

Acetoacetic acid

rapid detn. of lactic, hydroxybutyric, and acetoacetic acids in whole blood by high-pressure liquid chromatog. (A), 1016

N-Acetylneuraminic acid

automated method for detn. of bound N-acetylneuraminic acid in serum (SN), 412

N-Acetylneuraminic acid(s)

See Sialic acids

N-Acetylprocainamide

fluorometric assay for N-acetylprocainamide, 1899

Acid-base balance

biochemical acid-base balance in umbilical cord blood of the newborn (A), 950
use of carbon dioxide- and oxygen-tonometered phosphate:bicarbonate:chloride:glycerol:water mixtures for calibration and control of pH, pCO₂, and pO₂ electrode systems, 685

Acidic metabolites

use of high-resolution open tubular glass capillary columns to separate acidic metabolites in urine (SN), 888

Acid phosphatase

enhancing effect of surfactant and protein on hydrolysis of thymolphthalein monophosphate by purified prostatic acid phosphatase, 1761

fluorometric assay of serum acid or alkaline phosphatase, either in soln. or on a semisolid surface, 1791

simple improved modification of

Babson-Phillips assay for acid phosphatase (A), 1018

Adamantanamines

pharmacokinetics and synaptic effects of adamantanamines in the rat—a study of GC-MS (A), 1027

Adenosine aminohydrolase

adenosine aminohydrolase as an indicator of immune status (A), 984

Adenosine desaminase

adenosine desaminase in combined immunodeficiency survey of transplantation with bone marrow cells and detection of the carrier state (A), 1037

Adenylate cyclase

hormone actions on adenylate cyclase systems (A), 923

Adrenal and pituitary function

nonchromatog. RIA of plasma 11-deoxycortisol, for use in the metyrapone test, with polyethylene glycol as the precipitant, 719

Alanine aminopeptidase

nature of the multiple forms of alanine aminopeptidase (A), 1019

Alanine aminotransferase

aspartate aminotransferase and alanine aminotransferase activities in plasma: statis. distributions, indiv. variations, and ref. values, 1077

effect of lactate dehydrogenase isoenzymes on the coupled enzymatic assay for alanine aminotransferase acty. 330

evaln. of the "System Olli 3000" kinetic uv analyzer for measuring aspartate and alanine aminotransferase and lactate dehydrogenase activities in serum, 676
frequency and degree of error in the uv measurement of aspartate and alanine aminotransferase activities in serum (A), 1028

systematic approach to optimization of the alanine aminotransferase kinetic enzyme assay (A), 1028

Albumin

automated method for detn. of serum albumin using bromophenol blue (A), 970

immunochem. detn. of serum albumin with a centrifugal analyzer, 195

kinetic nephelometric measurement of IgG and albumin in serum and CSF using a laser-modified Aminco Rotochem (A), 943
screening for albuminuria: A case for estn. of albumin in urine, 1795

Albumin, binding by

variability of binding of BCG, ANS and other ligands among individual serum albumins (A), 970

Alchemy

the double pelican (a cautionary tale) (H), 1998

Alcohol

alcohol anal. in biol. liquids by solid-state headspace sensing (A), 973

Alcoholism

serum gamma-glutamyltransferase in alcoholics (A), 997

Aldehyde dehydrogenase

use of aldehyde dehydrogenase to indicate H₂O₂ producing reactions (A), 1018

Aldolase

immunochem. studies on aldolase isoenzymes (A), 958

Aldopentoses

aldopentose assay in biol. fluids (A), 1000

Aldosterone

experiences with an RIA for aldosterone using commercially available components (A), 1022

further identification of phosphorylated nonhistone chromatin proteins induced by aldosterone (A), 986

plasma renin, angiotensin II and plasma and urine aldosterone in an intense running exercise (A), 985

RIA of aldosterone and other corticoids by means of nylon-bound antibodies (A), 1022

Aliphatic alcohols

gas-chromatog. mass-spec. detection of low-molecular-weight aliphatic alcohols in urine of normal individuals and patients with diabetes mellitus, 1294

Alkaline phosphatase

alk. phosphatase I: extraction, purification, and characterization of spleen isoenzymes (A), 969

alk. phosphatase II: inhibition of

ADP-induced platelet aggregation by spleen isoenzyme (A), 969

clinical results of quant. detn. of serum alk. phosphatase isoenzymes (A), 968

comparison of discriminant value of

γ-glutamyl transferase vs. alkaline phosphatase isoenzymes (A), 969

detn. of alk. phosphatase acty. using front

surface fluorescence (A), 970

diagnostic implications of the two liver alk. phosphatase isoenzymes found by cellulose acetate electrophoresis (A), 968

electrophoretic assessment of normal and pathological distribn. of alk. phosphatase isoenzymes in serum, 1128

electrophoretic patterns of alk. phosphatase isoenzymes in human sera with abnormally

high acty., and an unusual band in sera of patients with pancreatic cancer, 1067

evaln. of a new indigogenic substrate for demonstrating serum alk. phosphatase isoenzymes (A), 968

fluorometric assay of serum acid or alkaline phosphatase, either in soln. or on a semisolid surface, 1791

immunochemical properties of isoenzymes of human alk. phosphatase (A), 969

more on values for alkaline phosphatase acty. in calibration sera (L), 787

5'-nucleotidase and nonspecific alk.

phosphatase fractionation by electrophoresis on cellulose acetate (A), 969

serum glutamyl transpeptidase activity in identn. of elevated serum alk. phosphatase (A), 970

stabilization of acty. of alk. phosphatase in lyophilized serum and frozen human serum (A), 964

thymol blue monophosphate—a new substrate for kinetic alk. phosphatase detns. (A), 969

total alk. phosphatase acty. in human serum (SM), 1988

urinary alk. phosphatase and lactate dehydrogenase enzyme and isoenzyme

excretion in health and disease. I. patterns in healthy subjects (A), 1034

vidicon spectrometer applied to simultaneous enzyme detns. 211

Alpha-L-acetylmethadole

isolation and identn. of metabolites of alpha-L-acetylmethadole (A), 973

American Association of Clinical Chemists

See AACC

Amino acid analysis

continuous monitoring of radioactivity, of effluent from a high-speed amino acid analyzer; new system of sample segmentation, 1212

Amino acid metabolism

human biochem. genetics of amino acid metab. (A), 920

Amino acidopathies

high-resolution high-voltage paper electrophoresis system for screening for amino acidopathies (SN), 1980

Amino acids

free amino acids in human tonsillar tissue (SN), 414

ion-exchange chromatog. of urinary amino acids with fluorescence detection (A), 1003

sex-related patterns in urinary amino acids, 1970

δ -Aminolaevulinic acid dehydratase

fluorimetric detn. of δ -aminolaevulinic acid dehydratase act. in human erythrocytes as index to lead exposure, 1783

δ -Aminolevulinic acid dehydratase

evaln. of blood Δ -aminolevulinic acid dehydratase act. as a test for organic Pb poisoning (A), 994

δ -Aminolevulinic acid dehydratase

assay for delta-aminolevulinic acid dehydratase in human blood (A), 1017

Aminotransferase

systematic approach to enzyme assay optimization, illustrated by aminotransferase assays, 1939

Ammonia

micro-ammonia detns. in plasma using two different methods (A), 1002

removal of ammonia by formation of amino acids in rats with nutritional and toxic liver damage (A), 1002

simple enzymatic method (Monotest) for detn. of ammonia in plasma (A), 1003

Amniotic fluid

automated differentiation and measurement of hexosaminidase isoenzymes in biol. fluids and application to pre- and postnatal detection of Tay-Sachs disease, 334

lecithin:sphingomyelin ratio in amniotic fluid, as assessed by a modified thin-layer chromatographic method (commercial pre-coated plate) (SN), 260

practical rapid differentiation of amniotic fluid and urine (A), 1034

Amperometry

assay of L-tyrosine in serum by amperometry of tyrosinase-catalyzed oxygen consumption, 325

Amylase

a rapid kinetic nephelometric method for the determination of amylase and lipase with the Perkin-Elmer model 91 analyzer (A), 948

"chromolytic" methods for α -amylase (L), 166

comparison of two commercially available amylase kits: amyloclotube and amylochrome (L), 1854

human pancreatic and parotid amylase activities on different substrates, 343

modn. of amyloclotube method for automatic detn. of α -amylase (A), 947

NAD-linked kinetic method for detn. of amylase (A), 947

new automated saccharogenic method for the detn. of serum amylase (A), 947

new, simple maltogenic assay for mechanized detn. of α -amylase act. in serum and urine, 694

reassessment of clin. significance of amylase isoenzymes (A), 948

Amylase:creatinine ratio

urinary amylase:creatinine ratio in renal transplantation and kidney disease (A), 955

Anal. systems

quant. immunoelectrophoretic methods: lit. survey (R), 5

Analytical error

automation of patients: sample linkage, identn. and anal. (A), 977

correln. of selected serum constituents: 1. inter-individual variation and anal. error, 1592

effect of albumin on serum digoxin RIA, 402

electronic correction of values that are "off-scale" in the SMA-6 system for continuous-flow anal. (SN), 151

factors influencing evapn. from sample cups; their effect on anal. error, 1907

impact of laboratory error on the normal range: a Bayesian model, 321

intercomparison program of Pb, Hg, and Cd anal. in blood, urine, and aq. solns. 551

interference of lab. methods in clin. chem. by metabolites, drugs, etc. (A), 972

leakage of radioactivity through polyethylene tubes (L), 1691

patients as their own controls: use of the computer to identify lab. error, 1648

possible errors in 3-point assays for ALT and AST in serum and how the Technicon SMAC biochem. analyzer computer flags such errors (A), 1005

radioimmunoassay of plasma testosterone, with use of polyethylene glycol to separate antibody-bound and free hormone, 708

relation between concn. errors and dilution errors (A), 953

sampling with air-piston pipets—a critical study (A), 1037

simultaneous estn. of major performance parameters of automated instruments (A), 1006

temp. variation detection in a blood pH-gas analyzer (L), 176

theory of photometric errors applied to design and evaln. of a high-performance filter photometer, 249

Analytical system

evaln. of the Beckman "System TR Enzyme Analyzer", 1107

thermochemical detns. of glucose in serum, plasma, and whole blood without prior deproteinization, 741

Analytical systems

See also Centrifugal analyzers

adaptation of a T_3 -uptake test and of RIAs for serum digoxin, thyroxine, and triiodothyronine to an automated RIA system—"Centria", 1305

automated system for simultaneous detection of radioactivity and ninhydrin-positive material in high-pressure liquid chromatog. eluates (A), 1031

comparison of enzyme analyzer systems including a prototype of the Perkin-Elmer KA-150 (A), 1031

computer interface for data acquisition and control of an SMA 12-60, 1221

computerized multicuvette system for single-substance and group anal. and for chromatographic isolation and quantn. of compds. in complex mixts. 1270

enzymatic immunoassay vs. gas-liquid chromatog. for detn. of phenobarbital and diphenylhydantoin in serum, 1766

enzymatic procedure for serum triglycerides (SN), 1983

evaln. of a new, discrete, multichannel analyzer (A), 1006

evaln. of the revised serum Ca procedure used with the Du Pont Automatic Clinical Analyzer, 850

evaln. of the "System Olli 3000" kinetic uv analyzer for measuring aspartate and alanine aminotransferase and lactate dehydrogenase activities in serum, 676

example of lyophilized protein-based materials not simulating patient sera (SN), 1812

experience with the Greiner Electronic Selective Analyzer II. (A), 1007

instrument for rapid detn. of activities of lactate dehydrogenase isoenzymes, 1277

integrated approach to automation using four Aminco Rotochem parallel fast analyzers (A), 1036

kinetic substrate methods on an ultramicro kinetic analyzer (A), 1031

new ultra-micro high-speed analyzer for the hosp. chem. lab. (A), 1006

prepn. of a modified glucose oxidase reagent for the polarographic detn. of glucose with the Beckman "Glucose Analyzer", 760

rapid kinetic meas. of lactate in plasma with a centrif. analyzer, 1932

rapid, micro-chem. system suitable for emergency work (A), 1031

simultaneous estn. of major performance parameters of automated instruments (A), 1006

Analyzer

See specific type or analyte, analytical systems

Anemia

comparison of commercial kits for RIA: III. radioassay of serum folate, 1922

identn. of human hemoglobins via isoelectric focusing in gel, 1953

possible mechanism in one case of sideroblastic anemia associated with marked elevation of erythrocytic arginase act. (A), 983

red cell enzymes before and after Fe therapy in Fe deficiency anemia (A), 1034

Angiotensin

plasma renin, angiotensin II and plasma and urine aldosterone in an intense running exercise (A), 985

Angiotensin I

computer-controlled automation of RIA based on gel entrapment of antibody, 829

Anticonvulsant drugs

anticonvulsant drugs: gas-chromatog. simultaneous detn. of primidone, phenylethylmalonamide, carbamazepine, and diphenylhydantoin, 1658

Antigen/antibody complexes

evaln. of kinetic light scattering as an approach to measurement of specific proteins with the centrifugal analyzer. II. Theoretical considerations, 1735

Antitrypsin

assay of antitrypsin act. (A), 970

inhibition of renin by alpha-1-antitrypsin (A), 985

Apolipoproteins

RIA for human plasma apolipoprotein (A), 1022

Arginase

possible mechanism in one case of sideroblastic anemia associated with marked elevation of erythrocytic arginase act. (A), 983

Argininosuccinate lyase

serum and erythrocyte argininosuccinate lyase assay by NADH fluorescence generated from formed fumarate, 230

Argininosuccinic acidemia

Argininosuccinic acidemia in a healthy infant detected by a urine screening program (A), 950

Arylsulfatase

4-Methylumbelliferyl sulfate: fluorimetric substrate for lysosomal arylsulfatase A (A), 1013

Ascorbate

centrifugal analyzer detn. of ascorbate in serum or urine with Fe^{2+} -ferrozine, 1493

effect of sodium ascorbate concns. on the detn. of serum folate (A), 1030

Aspartate aminotransferase

aspartate aminotransferase and alanine aminotransferase activities in plasma: statis. distributions, indiv. variations, and ref. values, 1077

azide as preservative in assays of aspartate aminotransferase act. (SN), 158

detn. of aspartate aminotransferase by differential inhibition (A), 1028

effects of buffers on aspartate aminotransferase act. and assocn. of the enzyme with pyridoxal phosphate, 1585

evaln. of assay for aspartate aminotransferase activity with use of human enzyme ref. materials (A), 1028

evaln. of the "System Olli 3000" kinetic uv analyzer for measuring aspartate and alanine aminotransferase and lactate dehydrogenase activities in serum, 676

frequency and degree of error in the uv measurement of aspartate and alanine aminotransferase activities in serum (A), 1028

interlab. proficiency, intermethod comparison, and calibrator suitability in assay of serum aspartate aminotransferase activity, 1141

specifications for reagent enzymes in the measurement of aspartate aminotransferase (A), 1028

venous serum, capillary serum, and capillary plasma compared for use in detn. of lactate dehydrogenase and aspartate aminotransferase activities (SN), 896

Aspartate transaminase

transamination of serine by human tissues (A), 1029

Asthma

rapid anal. for theophylline in serum by use of high-pressure cation-exchange chromatog. 834

Atomic absorption spectrophotometry

See Atomic absorption spectroscopy

Atomic absorption spectroscopy

correction for spectral interference with detn. of Pb in blood by non-flame at. absorption spectrometry (SN), 891

determination of Zn in whole blood, erythrocytes, and plasma of rhesus monkey by at. ab. spectrophotometry (A), 995

detn. of Cd in blood and urine by graphite furnace at. absorption spectrophotometry, 636

detn. of serum Cu by at. absorption, with use of the graphite cuvet, 619

direct detn. of Pb in urine by flameless at. ab. spectrometry (A), 993

effect of carbon cup aging on plasma Zn detn. by flameless at. absorption spectrometry, 632

- effect of matrix of std. on results of at. absorption spectrophotometry of Zn in serum, 588
- evaln. of the revised serum Ca procedure used with the Du Pont Automatic Clinical Analyzer, 850
- improved method for determining Pb in whole blood and urine using a Delves cup at. ab. procedure (A), 994
- linear working graphs in blood Pb detns. with the Beckman flameless at. absorption cuvet, 630
- micromethod for Pb detn. in whole blood by at. absorption, with use of the graphite furnace, 558
- serum and tissue enzyme activity and trace-element content in response to Zn deficiency in the pig, 568
- technique for detg. Ni in blood by flameless at. absorption spectrophotometry, 562
- ultramicro anal. for Cu, Cd, and Zn in human liver tissue by use of at. absorption spectrophotometry and the heated graphite tube atomizer, 537
- zinc deficiency in sickle cell disease, 582
- Australian antibody**
See Hepatitis B antibody; Hepatitis B antigen
- Authors**
See Information for Authors
- Autoanalyzer**
See Continuous-flow analyzer
- Automated analyzer**
See Analytical system
- Awards**
See also AACC
Bernard F. Gerulat Memorial Award, 1049
general diagnostics lectureship, 1049
Katchman Award, 1866
Lambert Award, 1189
Reinhold Award, 1049
- Barbiturate**
comparative merits of techniques for barbiturate detection in urine (L), 1846
Radioimmunoassay compared with thin-layer chromatog. and gas-liquid chromatog. methods of barbiturate detection in human urine, 672
- Barbiturates**
See also Drug assay
screening method for barbiturates in urine, 1609
- Bence Jones proteinuria**
lab. diagnosis of Bence Jones proteinuria in a patient with plasma cell leukemia (CR), 1683
- Benzodiazepines**
fluorometric screening for benzodiazepines in blood and urine, 1976
- Bicarbonate**
evaln. of the Oxford Titra-Chem. for the detn. of HCO_3^- , Ca^{2+} , and Cl^- in serum (L), 2000
- Bile acids**
RIA for serum glycine-conjugated bile acids (A), 992
- Bile salts**
specificity of oxidn. of bile-salt hydroxyl groups by crude extracts of *P. testosteronei* (ATCC 11996) used in detg. bile salts, 1630
- Bilirubin**
an automated dual wavelength method for the determination of pediatric total bilirubin (A), 950
application of the centrifugal fast analyzer for blank correction: new methods for measurement of total and direct bilirubin and uric acid (A), 964
derivatives of 1-naphthyl ethylenediamine dihydrochloride for standn. of direct bilirubin assays on the Technicon SMAC biochem. analyzer (A), 1005
effect of temp. and light on the short-term stability of conjugated and unconjugated bilirubin solns. (A), 1000
evaln. of ABA-100 procedure for total and direct bilirubin in serum or plasma (SN), 1511
fluorometric detn. of "albumin-titratable bilirubin" in the jaundiced neonate, 1638
prepn. of a stable, freeze-dried bilirubin std. (A), 1001
reaction-time model for the Malloy-Evelyn direct bilirubin procedure (A), 1000
stable diazo-p-benzenesulfonic acid solns. for bilirubin assays (L), 449
- Bisalbuminemia**
a case of bisalbuminemia induced by ampicillin (A), 1022
- Blood coagulation**
correlation of plasma luminescence intensity with blood coagulation (A), 999
- Blood gases**
application of an enzymatic serum total carbon dioxide assay to the Vickers Multichannel 300 (A), 980
carbon dioxide and oxygen tonometered phosphate-bicarbonate-chloride-glycerol:water solution for calibration and control of pH, pCO_2 and pO_2 electrode systems (A), 981
catecholamine turnover rates in the rat brain after in vivo exposure to hyperbaric oxygen (A), 1027
colorimetric enzymatic detn. of serum total CO_2 , as applied to the Vickers Multichannel 300 discrete analyzer, 1093
continuous detn. of oxygen dissociation curve for whole blood, 1747
direct micro CO_2 gasometric apparatus (A), 979
phase equilibria of oxygen in blood-gas control samples (L), 165
pH, log pCO_2 -relationship of phosphate, bicarbonate, chloride solutions equilibrated with CO_2 (A), 981
scope of mass spectrometry in clin. chem. (R), 803
simultaneous electrochem. detn. of total CO_2 and chloride (A), 980
temp. variation detection in a blood pH-gas analyzer (L), 176
use of carbon dioxide- and oxygen-tonometered phosphate-bicarbonate-chloride-glycerol:water mixtures for calibration and control of pH, pCO_2 , and pO_2 electrode systems, 685
- Blood urea nitrogen**
comparative evaln. of automated enzymatic and nonenzymatic methods for blood urea nitrogen (A), 1001
- Bone disease**
electrophoretic assessment of normal and pathological distribn. of alk. phosphatase isoenzymes in serum, 1128
- Bone-inducing factor**
bone-inducing factor from osteosarcomas (A), 1025
- Bone resorption**
effect of uraemic metabolites on parathyroid extract-induced bone resorption in vitro (A), 960
- Book reviews**
Achieving the Optimum Information System for the Laboratory, 1554
Advances in Chromatography, 11, 788
Advances in Chromatography, 12, 1556
Advances in Clinical Chemistry, 17, 1862
Advances in Enzymology and Related Areas of Molecular Biology, 41, 453
Amniotic Fluid: Physiology, Biochemistry, and Clinical Chemistry, 178
Analytical Ion-Exchange Procedures in Chemistry and Biology—Theory, Equipment, Techniques, 274
An Introduction to Liquid Scintillation Counting, 1187
Automatic Chemical Analysis, 1046
Biochemistry, 1349
Biochemistry of Human Cancer, 1860
Biochemistry of Lipids, 4, MTP International Review of Science. Biochemistry, Series One, 1187
Biochemistry of Women: Clinical Concepts, 274
Biochemistry of Women: Methods for Clinical Investigation, 274
Clinical Application of Blood Gases, 1186
Clinical Biochemistry: Principles and Methods, 2 vols. 455
Clinical Chemistry: Conversion Scales for SI Units with Adult Normal (Reference) Values, 1860
Clinical Chemistry—Principles and Techniques, 2nd ed. 273
Clinical Radioassay Procedures: A Compendium, 1348
Defense and Recognition, 1046
Determination of pH, Theory and Practice, 2nd ed. 790
Deutsches Arzneibuch, Deutsche Demokratische Republik, 7, 454
Electrophoresis and Isoelectric Focusing in Polyacrylamide Gel, 178
Enzymology in the Practice of Laboratory Medicine, 453
Erbliche Defekte des Kohlenhydrat-, Aminosäuren- und Proteinstoffwechsels, Handbuch der Inneren Medizin, Teil 1, 1553
Financial Management of the Clinical Laboratory, 1186
Gas Chromatographic Applications in Microbiology and Medicine, 1858
Gonadotropins and Gonadal Function, 1348
- Goodale's Clinical Interpretation of Laboratory Tests**, 7th ed. 642
Handbook of Experimental Pharmacology, 23. Concepts in Biochemical Pharmacology, part 3, 1858
Immunoassays for Drugs Subject to Abuse, 788
Laboratory Instrumentation, 454
Methodology for Analytical Toxicology, 1553
Methods in Investigative and Diagnostic Endocrinology, vol. 1, 1553
Methods in Radioimmunoassay, Toxicology, and Related Areas. Progress in Analytical Chemistry, 7, 789
Methods of Enzymatic Analysis, 1-3, 2nd English ed. 454
Methods of Hormone Radioimmunoassay, 789
Microanalysis in Medical Biochemistry, 5th ed. 1349
Molecular Mechanisms of Gonadal Hormone Action. Advances in Sex Hormone Research, 1, 1350
Nuclear Medicine In Vitro, 1348
Optimierung der Diagnostik, 273
Progress in Chemical Toxicology, 5, 788
Progress in Quality Control in Clinical Chemistry. Transactions of the V. International Symposium, Geneva, Apr. 10-11 1973, 2011
Serumproteins, 1350
Statistics in Medicine, 789
Steroid Immunoassay, 1553
The ABC of Acid-Base Chemistry, 6th ed., rev. 790
The Detection of Hemoglobinopathies, 178
The Prenatal Diagnosis of Hereditary Disorders, 453
Vitamin C. Recent Aspects of Its Physiological and Technological Importance, 1187
- Cadmium**
detn. of Cd in blood and urine by graphite furnace at. absorption spectrophotometry, 626
- Calcium**
automated detn. of Ca by a new photometric method (A), 961
differences in susceptibility of at. ab. spectrophotometers to matrix effects on serum Ca measurements (A), 961
evaln. of the Corning 940 Calcium Titrator for use with serum and urine (SN), 264
evaln. of the Oxford Titra-Chem. for the detn. of HCO_3^- , Ca^{2+} , and Cl^- in serum (L), 2000
evaln. of the revised serum Ca procedure used with the Du Pont Automatic Clinical Analyzer, 850
interlaboratory study of methods for Ca and Mg in serum (A), 961
micro procedure for serum Ca detns. using the Calcrete analyzer (A), 961
neonatal hypocalcaemia and its relationship to vitamin D and mineral metabolism in pregnancy (A), 951
pancreatic lipase assay requirement for ionized calcium (A), 948
stability of Ca, Cu, Zn, and Hg in urine (A), 962
use of the Ref. Method for detn. serum Ca in a quality-assurance survey, 1416
- Calculi**
routine anal. of calculi by ir spectroscopy (A), 1032
thermoanal. of renal calculi (A), 1032
urinary calculi in Israel: chem. comp., age onset, and distribution in various ethnic groups (A), 1032
- Calibration materials**
See Quality control
- Calorimetry**
a direct thermochemical approach to the digitoxin/albumin interaction (L), 1846
micro-calorimetry in clin. chem. (A), 936
- Canavaninosuccinate**
hepatic synthesis of canavaninosuccinate from ureidohomoserine and aspartate; conversion to guanidosuccinate, 1777
synthesis of canavaninosuccinate from ureidohomoserine and aspartate (A), 1003
- Cancer**
assay of estrogen-binding protein in breast tumors (A), 1009
chemical basis and specificity of chem. screening tests for urinary vanilmandelic acid, 130
comparison of carcinoembryonic antigen and glucosylphosphate isomerase as an index of cancer therapy (A), 1024
detn. of cholesterol and desmosterol in human cerebrospinal fluid and various brain tumors by GLC (A), 1035
detn. of estrogenic receptors in breast cancers (A), 1010

- detn. of 5-fluorouracil in serum of cancer patients (A), 1024
- detn. of phosphodiesterase I acty. in serum, 1383
- DOPA-oxidase activity in urine and its diagnostic importance for malignant melanoma (A), 1025
- electrophoretic assessment of normal and pathological distribn. of alk. phosphatase isoenzymes in serum, 1128
- electrophoretic patterns of alk. phosphatase isoenzymes in human sera with abnormally high acty., and an unusual band in sera of patients with pancreatic cancer, 1087
- enhancing effect of surfactant and protein on hydrolysis of thymolphthalein monophosphate by purified prostatic acid phosphatase, 1761
- flow-system multiangle light-scattering instrument for cell characterization, 1297
- gas-chromatographic method for measuring urinary excretion of aromatic and indolyl acids (A), 1025
- immune response in patients with malignant paraproteinemia (A), 1025
- liquid-chromatog. anal. for neutral carbohydrates in serum glycoproteins, 1314
- metabolic pattern of free amino acids, glucose, lactic acid, pyruvic acid, fatty acids, BUN, uric acid in serum of 21 healthy persons and 24 patients with malignant tumors (A), 1025
- metal carcinogenesis (L), 1542
- microanal. system for detn. of picogram quantities of metals in metalloenzymes, as illustrated with Zn-containing enzymes, 591
- more sensitive automated detection of polyamines in physiological fluids and tissue extracts with *o*-phthalaldehyde, 1721
- potential for clin. use of anal. laser microprobe for element measurement, 1238
- relative usefulness of measuring polyamines in serum, plasma, and urine as biochem. markers of cancer, 860
- similarity between human placental pyruvate kinase and pyruvate kinase in serum of patients with carcinoma of lung and stomach (A), 956
- simplified Scatchard-plot assay for estrogen receptor in human breast tumor, 1725
- tissue polypeptide antigen in serum or urine of patients with cancer—a prelim. evaln. (A), 985
- variations in metabolism of tryptophan in 50 cases of carcinoid tumors (A), 1024
- Carboxypeptidase**
serum carboxypeptidase A activity and pancreatic exocrine function (A), 949
- Carcinoembryonic antigen**
carcinoembryonic antigen (A), 934
comparison of carcinoembryonic antigen and glucosephosphate isomerase as an index of cancer therapy (A), 1024
- pH measurement problems affecting assay of carcinoembryonic antigen (SN), 255
- practical applications of RIA theory: simple procedure yielding linear calibration curves, 1113
- simple automated dialysis system for indirect Roche-CEA-test (Hansen method) (A), 992
- Cardiac disease**
See Heart disease
- Carotenoids**
carotenoids in erythrocyte membranes of carotenemics and noncarotenemics (SN), 258
- Catecholamines**
catecholamine turnover rates in the rat brain after in vivo exposure to hyperbaric oxygen (A), 1027
- clin. evaln. of a method for detg. catecholamines in urine using high-pressure liquid chromatog. with electrochem. detection (A), 1016
- improved assay for automated detn. of urine catecholamines (A), 1016
- Catechol-O-methyltransferase**
radioassay for catechol-O-methyltransferase activity in red cells (A), 982
- Cell characterization**
flow-system multiangle light-scattering instrument for cell characterization, 1297
- Centrifugal analyzer**
See also specific analyte of interest
accessory system that reduces the human manipulations required in using a GEMSAEC analyzer (A), 965
- advances in centrifugal analyzer development (A), 935
- applications of vidicon spectrometer to anal. problems in clin. chem., 1192
- coagulation-time detn. with automatic multivariable anal., with a miniature centrifugal analyzer, 1288
- comparison between fast analyzers (Vickers D-300, CentrifChem) (A), 965
- design of a new miniature analyzer (A), 965
- development of a multipurpose optical system for a centrifugal analyzer, 1225
- development of chemistries on a new miniature clinical analyzer (A), 966
- drug screening by enzymatic immunoassay with the centrifugal analyzer, 186
- electrophoresis on cellulose acetate and chromatography on DEAE-Sephadex A-50 compared in the estn. of creatine kinase isoenzymes, 381
- evaln. of kinetic light scattering as an approach to measurement of specific proteins with the centrifugal analyzer. I. Methodology, 1731
- evaln. of kinetic light scattering as an approach to measurement of specific proteins with the centrifugal analyzer. II. Theoretical considerations, 1735
- evaln. of the CentrifChem centrifugal parallel fast analyzer and its performance with various 'kits' of reagents (A), 964
- factors influencing evapn. from sample cups; their effect on anal. error, 1907
- immunochem. detn. of serum albumin with a centrifugal analyzer, 195
- improved method for enzymatic detn. of serum triglycerides, 1627
- innovative techniques to improve accuracy, precision and speed of "end-point" chemistry performed on the GEMSAEC analyzer (A), 965
- kinetic detn. glucose with the centrifugal analyzer by the glucose dehydrogenase reaction, 1372
- measurement of erythrocyte glucose-6-phosphate dehydrogenase activity with a centrifugal analyzer, 134
- multipoint kinetic analysis for first-order chemistries (A), 965
- serum blanking method for end-point chemistries using an early reading technique on a modified ENI GEMSAEC centrifugal analyzer (A), 964
- specific protein analysis by light-scatter measurement with a miniature centrifugal fast analyzer (L), 1691
- Ceramides**
above-normal urinary excretion of ceramides in Farber's disease, and characterization of their components by high-performance liquid chromatog. 725
- Ceruloplasmin**
automated detn. of serum ceruloplasmin acty. with *o*-dianisidine dihydrochloride as substrate, 757
- umbilical ceruloplasmin in women and neonates (A), 1021
- Chaga's disease**
serologic application of a new enzymeimmunochemical method to the diagnosis of tripanosomiasis americana (Chaga's disease) (A), 1035
- Chile, clin. chem. in**
clin. chem. in Chile: the reality (A), 954
- Chloride**
detn. of Na⁺ and K⁺ in urine with ion-selective electrodes in an automated analyzer, 1572
- evaln. of the Oxford Titra-Chem, for the detn. of HCO₃⁻, Ca²⁺, and Cl⁻ in serum (L), 2000
- simultaneous electrochem. detn. of total CO₂ and chloride (A), 980
- Chlorpromazine**
evaln. of a new simple colorimetric method for detn. of chlorpromazine (A), 1001
- Cholestasis**
direct method for measuring lipoprotein-X in serum, 853
- Cholesterol**
automated extraction and simultaneous detn. of serum cholesterol and triglycerides, 1430
- colorimetry of serum cholesterol with use of ferric acetate:uranyl acetate and ferrous sulfate:sulfuric acid reagents (SM), 1526
- comparison of two new enzymatic cholesterol-color tests on AutoAnalyzer-systems with other cholesterol tests (A), 942
- continuous-flow automation of cholesterol oxidase-based detn. of serum cholesterol (A), 942
- control of cholesterol metabolism (A), 927
- detn. of cholesterol and desmosterol in human cerebrospinal fluid and various brain tumors by GLC (A), 1035
- direct detn. of total serum cholesterol by double-wavelength spectrophotometry, 703
- enzymatic detn. of cholesterol and triglyceride on a centrifugal fast analyzer (A), 941
- enzymatic detn. of total cholesterol in serum, using peroxidase as indicating enzyme (A), 941
- enzymatic detn. of total serum cholesterol with the ENI GEMSAEC fast analyzer (A), 941
- experience with cholesterol oxidase in the automated detn. of serum cholesterol (A), 942
- fluorometric enzymatic detn. of total cholesterol in serum, 1605
- modn. of the enzymic detn. of cholesterol for use on the GEMSAEC Centrifugal Analyzer (A), 942
- on kinetic equations for the cholesterol-sulfuric acid reaction (L), 1536
- serum and tissue enzyme activity and trace-element content in response to Zn deficiency in the pig, 568
- serum cholinesterase and hypercholesterolemia (A), 991
- simultaneous detn. of serum cholesterol and triglycerides after prelim. column chromatog. (SN), 428
- spectrophotometric comparison of two direct serum cholesterol procedures, one enzymatic and one nonenzymatic (A), 941
- technique for enzymatic cholesterol detn. using an aqueous cholesterol standard (A), 991
- Cholesterol-sulfuric acid reaction**
kinetic equations and error anal. for the cholesterol-sulfuric acid reaction, 199
- kinetics of cholesterol-sulfuric acid reaction (L), 170
- Cholinesterase**
clin. significance of P-2-AM as a reactivator of organophosphate-inhibited human cholinesterases (A), 1020
- criticism of a Selected Method: propionylthiocholinesterase (L), 1041
- influence of age, sex, and oral contraceptives on blood cholinesterase acty. 1393
- method for detn. of serum cholinesterase acty. (A), 1017
- new serum cholinesterase variants and prolonged apnea with suxamethonium (A), 1019
- serum cholinesterase and hypercholesterolemia (A), 991
- temporal intrapersonal physiolog. variability of cholinesterase acty. in human plasma and erythrocytes, 1961
- Chondrodystrophies**
investigation of chondrodystrophies by use of cultured chondrocytes (A), 937
- Chorionic somatotropin**
correlation of total urinary estrogens and human chorionic somatotropin (A), 1009
- Chromatin**
properties of transcriptionally active ("euchromatin") and less active ("heterochromatin") rat ventral prostate chromatin (A), 1026
- Chromatography**
above-normal urinary excretion of ceramides in Farber's disease, and characterization of their components by high-performance liquid chromatog. 725
- anal. system for rapid sepn. of tissue nucleotides at low pressures on conventional anion exchangers, 1245
- anticonvulsant drugs: gas-chromatog. simultaneous detn. of primidone, phenylethylmalonamide, carbamazepine, and diphenylhydantoin, 1658
- automated differentiation and measurement of hexosaminidase isoenzymes in biol. fluids and application to pre- and postnatal detection of Tay-Sachs disease, 334
- clin. applications of gas chromatog./mass spectrometer:computer systems, 1282
- comparison of results for morphine urinary excretion by RIA an' thin-layer chromatog. in a narcotic clinic setting (SN), 417
- computerized multicuvette system for single-substance and group anal. and for chromatographic isolation and quantn. of compds. in complex mixts. 1270
- continuous monitoring of radioacty. of effluent from a high-speed amino acid analyzer; new system of sample segmentation, 1212
- detn. of diphenylhydantoin in human serum by spin immunoassay, 221
- detn. of orotic and dihydroorotic acids in biol. fluids and tissues, 353
- diagnosis of Type III hyperlipoproteinemia by chromatog. of plasma lipoproteins on columns containing agarose, 1887
- enzymatic immunoassay vs. gasliquid chromatog. for detn. of phenobarbital and diphenylhydantoin in serum, 1766

faster gas-chromatog. procedure for theophylline (L), 1038
flash-heater ethylation of some antiepileptic drugs, 751
future of high-resolution techniques in the clin. lab. (A), 936
gas-chromatog. anal. of cocaine in human plasma, with use of a nitrogen detector, 1718
gas-chromatog. mass-spec. detection of low-molecular-weight aliphatic alcohols in urine of normal individuals and patients with diabetes mellitus, 1294
gas-chromatog. mass-spectrometric identn. and quantn. of tetrone and deoxytetrone acids in urine from normal adults and neonates, 1892
gas-chromatographic detn. of theophylline in human serum and saliva, 144
gas-chromatographic measurement of codeine and norcodeine in human plasma, 1956
gas-liquid chromatog. measurement of guanidino acids, 838
gas-liquid chromatog. of phenylalanine and its metabolites in serum and urine of various hyperphenylalaninemic subjects, their relatives, and controls, 735
identn. of some abnormal metabolites in plasma from uremic subjects, 1329
liquid-chromatog. anal. for neutral carbohydrates in serum glycoproteins, 1314
manual detn. of intra-erythrocytic 2,3-diphosphoglycerate in blood by enzymatic anal.; comparison with ion-exchange chromatog., 376
measurement of brain-specific creatine kinase isoenzyme acty. in serum (SN), 1663
microanal. system for detn. of picogram quantities of metals in metalloenzymes, as illustrated with Zn-containing enzymes, 591
more sensitive automated detection of polyamines in physiological fluids and tissue extracts with *o*-phthalaldehyde, 1721
multielement spark emission detector for gas chromatog. (A), 1032
organic nitrogen-selective detector used in gas-chromatographic detn. of anticonvulsant and barbiturate drugs in plasma and tissues, 98
plasma theophylline concns. measured by high-pressure liquid chromatography, 1774
quant. method for estimating fecal amino acids, 1437
Radioimmunoassay compared with thin-layer chromatog. and gas-liquid chromatog. methods of barbiturate detection in human urine, 672
rapid anal. for theophylline in serum by use of high-pressure cation-exchange chromatog., 834
relative usefulness of measuring polyamines in serum, plasma, and urine as biochem. markers of cancer, 860
RIA of drugs subject to abuse: critical evaln. of urinary morphine-barbiturate, morphine, barbiturate, and amphetamine assays, 81
scope of mass spectrometry in clin. chem. (R), 803
sepn. of creatine kinase isoenzymes in serum by ion-exchange column chromatog., 392
sepn. of synthetic mixtures of sugars and of sugars in body fluids, 1882
sex-related patterns in urinary amino acids, 1970
stable isotope ratio meter—multiple ion detector unit for quant. and qual. stable isotope studies by gas chromatog.—mass spectrometry, 1253
thin-layer chromatographic detection and identn. of methaqualone metabolites in urine, 76
thin-layer chromatography and enzyme immunoassay of L-alpha-acetyl methadol and methadone metabolites in urine, 109
use of high-resolution open tubular glass capillary columns to separate acidic metabolites in urine (SN), 888
Circadian rhythms
diurnal profiles of plasma cortisol, aldosterone, renin, angiotensinogen and angiotensins in normal subjects (A), 986
regulation of circadian glucose rhythms (A), 957
Citrate
citrate synthesis, by lymphocytes, 825
fluorimetry of citrate in serum, with use of citrate (*pro*-3S)-lyase, 730
fluorimetry of citrate in serum, with use of citrate (*pro*-3S)-lyase, 730
Citrate synthase
congenital fatal lactic acidosis in infancy with anemia possibly due to a defect at the citrate synthase level (A), 949

Clin. chem. methods, evaln. of
new scheme for the evaln. of methods in clin. chem. (A), 999
Clinical chemistry
clinical chemistry—a changing discipline (E), 1709
future areas of activity in clin. chem. (A), 918
future education and training requirements of clin. biochemists (A), 940
internat. clin. chem. (A), 919
perspectives of clin. chem. as seen from the hospital lab. (A), 938
perspectives of clin. chem. as seen from the independent lab. (A), 939
predictive value of lab. tests (A), 924
Clinical Chemist, The
179, 276, 456, 644, 793, 1047, 1189, 1352, 1559, 1696, 1866, 2012
Coagulation-time
coagulation-time detn. with automatic multivariable anal., with a miniature centrifugal analyzer, 1288
Cocaine
gas-chromatog. anal. of cocaine in human plasma, with use of a nitrogen detector, 1918
Codeine
gas-chromatographic measurement of codeine and norcodeine in human plasma, 1956
gas chromatog. thin-layer chromatog. anal. of acetylated codeine and morphine in urine, 1486
Celiac disease
signif. of measuring enzymes in human intestinal biopsies when investigating varying gluten susceptibility in celiac disease (gluten enteropathy) (A), 958
Colorimetry
manual colorimetry of triglycerides in serum (SM), 437
Competitive protein binding
See Radioassay
Complement
rapid kinetic nephelometric method for measurement of C3 and C4 in serum using a laser-modified Aminco Rotochem centrifugal fast analyzer (A), 1021
Computers
clin. applications of gas chromatog. mass spectrometer: computer systems, 1282
computer data anal. of clin. RIA and a compatible data-storage system (A), 1004
computerized multicuvette system for single-substance and group anal. and for chromatographic isolation and quantn. of compds. in complex mixts., 1270
computerized optimal utilization of SMAC, SMA 12/60 and SMA 6/60 data (A), 1005
discriminant function anal. and computer classification procedures for beginners: relevance to the interpretation of laboratory data, with particular reference to liver-function tests (A), 1035
evaln. and experiences with a DEC Clinical Lab 12 Computer System in a large clin. chem. lab. (A), 1004
impact of a time-sharing computer terminal on a clin. lab. (A), 1003
improved algorithm for kinetic analysis for a new chem. analyzer (A), 1004
integration of the SMAC into a clin. lab. computer system (A), 1005
interpretation of lab. data by teaching computer to make decisions (A), 977
optimization and interpretation of Trigg's technique for trend anal. in control data, 1396
possible errors in 3-point assays for ALT and AST in serum and how the Technicon SMAC biochem. analyzer computer flags such errors (A), 1005
Conference on proficiency testing
second national conference on proficiency testing, 1190
Continuous-flow analysis
See also AutoAnalyzer
automated detn. of serum ceruloplasmin acty. with *o*-dianisidine dihydrochloride as substrate, 757
automated differentiation and measurement of hexosaminidase isoenzymes in biol. fluids and application to pre- and postnatal detection of Tay-Sachs disease, 334
automated extraction and simultaneous detn. of serum cholesterol and triglycerides, 1430
automated immunochem. method for detn. of urinary protein of plasma origin, 1465
automated method for detn. of bound N-acetylneuraminic acid in serum (SN), 412
computer interface for data acquisition and control of an SMA 12:60, 1221
continuous-flow measurement of lactate in blood: technique for the emergency laboratory, 113

continuous monitoring of radioacty. of effluent from a high-speed amino acid analyzer; new system of sample segmentation, 1212
device for more economical standby operation of continuous-flow analyzers (SN), 1667
electronic correction of values that are "off-scale" in the SMA-6 system for continuous-flow anal. (SN), 151
electronic timing of a high-speed immunonephelometric continuous-flow system, 762
evaln. of a SMAC system (A), 1006
evaln. of Trinder's glucose oxidase method for measuring glucose in serum and urine, 1754
fluorometric serum lipase assay: evaln. of monodecanoyl fluorescein as substrate, 1479
manual and semi-automated procedures for triglycerides in serum, 1575
mechanized enzymatic detn. of triglycerides in serum (SN), 420
new ultra-micro high-speed analyzer for the hosp. chem. lab. (A), 1006
novel dual-channel dialyzer for continuous-flow analyzers (L), 1180
novel electronic debubbler for continuous-flow analyzers (A), 1006
novel system for sampling with capillaries for discrete and continuous-flow systems of anal. (A), 1006
optimization and interpretation of Trigg's technique for trend anal. in control data, 1396
procedure for calibrating the Technicon Colorimeter I, 774
simplified automated method for detn. of urinary or serum uric acid, based on redn. of ferric-phenanthroline complex, 125
single-channel AutoAnalyzer adapted for multiple tests without manifold changes, 1567
use of the continuous-flow analyzer SMAC in the clin. lab.—a six-month evaluation (A), 1005
Continuous-flow method
more sensitive automated method for detn. of ornithine carbamoyltransferase acty. in human serum, 754
Continuous-flow system
new, simple maltogenic assay for mechanized detn. of alpha-amylase acty. in serum and urine, 694
Control materials
prepn. and use of human serum control materials for monitoring precision in clin. chem. (SM), 1830
Copper
detn. of serum Cu by at. absorption, with use of the graphite cuvet, 619
Zn and Cu in human semen (A), 995
Corrections
157, 650, 761, 780, 1182, 1985
Corticosteroid-binding globulin
filter assay for corticosteroid-binding globulin in human serum (A), 1024
Cortisol
assay for plasma cortisol by competitive protein binding, 1474
improved RIA of plasma cortisol, 770
parallel RIA for plasma cortisol and 11-deoxycortisol, 1644
practical RIA for serum cortisol (A), 1022
Creatine
improved determination of "true" creatine in serum or plasma (L), 1848
Creatine kinase
abnormal electrophoretic mobility of a creatine kinase MM isoenzyme (CR), 1837
application of a UV CPK procedure to the Technicon AutoAnalyzer II (A), 988
assay of creatine kinase in the Technicon AutoAnalyzer II, SMA and SMAC continuous-flow anal. systems (A), 988
cardiac-specific creatine phosphokinase isoenzyme in the diagnosis of acute myocardial infarction (A), 974
chromatog. and electrophoretic sepn. of creatine kinase isoenzymes compared, 1601
chromatographic and electrophoretic sepn. of CPK isoenzymes following myocardial infarction (A), 974
clin. assay for myocardial CPK and LDH 1, 2 (A), 976
comparative methods for automated assay of creatine phosphokinase by colorimetric and ultraviolet absorption spectrometry (A), 987
comparison of commercial kits, with an optimized method for creatine kinase in serum (A), 987
comparison of six kinetic procedures for creatine kinase (A), 989
creatine kinase isoenzyme MB and heart disease (L), 1848

creatinine kinase isoenzymes in myocardial infarction (A), 975

creatinine phosphokinase isoenzymes in myocardial infarction with atypical enzyme profile (A), 974

depressed apparent creatine kinase acty. in sera with abnormally high alk. phosphatase acty. (L), 268

detection of cardiac-specific creatine kinase isoenzyme in sera with normal or slightly increased total creatine kinase acty. 1088

detn. of creatine phosphokinase isoenzymes in sera of patients with acute myocardial infarction and exogenous intoxications by immunoprecipitation (A), 989

does alk. phosphatase affect serum creatine kinase values? (L), 1343

electrophoresis on cellulose acetate and chromatography on DEAE-Sephadex A-50 compared in the estn. of creatine kinase isoenzymes, 381

guanidine interference in detn. of creatine kinase (L), 168

important to separate creatine kinase isoenzyme BB? (L), 1845

interference in the detn. of creatine phosphokinase (A), 988

isoenzymes of creatine kinase in baboon tissues (A), 975

kinetic model for time profile of serum creatine phosphokinase activity following myocardial infarction (A), 975

lag phase in creatine phosphokinase anal. (A), 987

manual and automated method for detng. acty. of creatine kinase isoenzyme MB, by use of dithiothreitol: clin. applications, 1612

measurement of brain-specific creatine kinase isoenzyme acty. in serum (SN), 1663

occurrence of brain isoenzyme of serum creatine kinase in different diseases as determined by quant. electrophoresis and ion-exchange column chromatography (A), 976

preparation of the human heart-specific (MB) isoenzyme of creatine kinase (L), 1691

prolonged illness and creatine kinase acty. (L), 1343

quant. separation of serum creatine kinase isoenzymes by ion-exchange chromatog. (A), 988

ref. values for creatine kinase activity in serum (A), 1008

semi-automated method for direct quantitation of CPK isoenzymes (A), 1034

sepn. of creatine kinase isoenzymes in serum by ion-exchange column chromatog. 392

sepn. of creatine kinase isoenzymes by high-pressure liquid chromatog. (L), 450

sepn. of creatine kinase isoenzymes in normal and pathological sera by an ion-exchange chromatog. method (A), 988

sepn. of creatine kinase isoenzymes by high-pressure liquid chromatog. (A), 989

sepn. of plasma creatine kinase isoenzymes by bat-h adsorption on glass beads, 844

serum MB isoenzyme significance in patients with normal total CPK activity (A), 975

significance and applications of CPK isoenzyme sub-bands in the clin. lab. (A), 975

simultaneous sepn. of serum creatine kinase and lactate dehydrogenase isoenzymes by ion-exchange column chromatog. 1102

what upper limit of creatine kinase acty. defines disease? (L), 272

Creatinine

creatinine excretion as a basis for assessing the excretion of other metabolites (A), 1036

kinetic assay for creatinine (A), 1001

kinetic enzymatic method for determining serum creatinine, 1422

kinetics and mechanism of reaction of picric acid and creatinine (A), 1002

ref. method for creatinine (A), 933

Cumulative Index, vols. 1-18

Cumulative Index, vols. 1-18, 1335

Cuvet

versatile temp. controlled reaction cuvet (SN), 1175

Cyclic AMP

cyclic nucleotide binding proteins, protein kinases and DNA-dependent RNA polymerases in rat mammary gland nuclear extracts (A), 987

hepatic clearance of cyclic AMP from plasma in the rat (A), 986

linear standard curves for saturation anal. of 25-OH-vitamin D, vitamin B12, cyclic AMP, T4 and T3 (A), 993

plasma c-AMP in menstrual cycle, pregnancy and menopause (A), 1033

relative predictive value of cyclic AMP levels and of other biochemical prognostic indicators in acute myocardial infarction (A), 952

Cystic fibrosis

immune complexes in cystic fibrosis (A), 984

precipitins in cystic fibrosis (A), 984

Cystinosis

diagnosis of cystinosis by use of conjunctival biopsies (CR), 1996

Cytogenetics

high-speed quant. karyotyping by flow microfluorimetry, 1258

Data processing

computer data anal. of clin. RIA and a compatible data-storage system (A), 1004

computer interface for data acquisition and control of an SMA 12-60, 1221

discriminant function anal. and computer classification procedures for beginners: relevance to the interpretation of laboratory data, with particular reference to liver-function tests (A), 1035

exploratory data anal. in the lab.: getting the most out of clin. data (A), 977

improvement of precision of continuous-flow systems through automated data handling (A), 1004

interpretation of clin. chem. data with use of electronic data processing (A), 922

interpretation of lab. data by teaching computer to make decisions (A), 977

low-cost data acquisition and data processing (A), 1003

new approach to lab. data acquisition (A), 1004

5-Decynedioic acid

5-decynedioic acid, an acetylenic compound in human urine, 1964

11-Deoxycortisol

nonchromatog. RIA of plasma

11-deoxycortisol, for use in the metyrapone test, with polyethylene glycol as the precipitant, 719

parallel RIA for plasma cortisol and 11-deoxycortisol, 1644

Desmosterol

detn. of cholesterol and desmosterol in human cerebrospinal fluid and various brain tumors by GLC (A), 1035

Diabetes

erythrocyte 2,3-diphosphoglycerate as related to diabetes and obesity, 1414

quantn. of free, total, and antibody-bound insulin in insulin-treated diabetics, 873

Diabetes mellitus

gas-chromatog. mass-spec. detection of low-molecular-weight aliphatic alcohols in urine of normal individuals and patients with diabetes mellitus, 1294

Diagnostic aid

immunofluorescence method for detecting anti-myocardial antibodies; use in diagnosing heart disease, 1903

Diagnostic aids

chemical basis and specificity of chem. screening tests for urinary vanilmandelic acid, 130

critical review: cluster anal. and the diagnosis of chronic diseases. laboratory data (A), 1033

detn. of serum Cu by at. absorption, with use of the graphite cuvet, 619

diagnostic value of routine liver tests, 71

direct method for measuring lipoprotein-X in serum, 853

fluorometric detn. of "albumin-titratable bilirubin" in the jaundiced neonate, 1638

"hybrid" immunoelectrophoretograms as "fingerprints" of some pathologic conditions (A), 983

lecithin: sphingomyelin ratio in amniotic fluid, as assessed by a modified thin-layer chromatographic method (commercial pre-coated plate) (SN), 260

lipoprotein electrophoresis should be discontinued as a routine procedure (O), 300

methodologic differences in values by three techniques for M-proteins in serum, 243

predictive value of laboratory diagnosis (A), 1008

routine RIA of plasma testosterone, and results for various endocrine disorders, 206

sepn. of creatine kinase isoenzymes in serum by ion-exchange column chromatog. 392

time-dependent variations in lab. data: diagnostic uses (A), 925

ultramicro anal. for Cu, Cd, and Zn in human liver tissue by use of at. absorption spectrophotometry and the heated graphite tube atomizer, 537

Differential light scattering

application of differential light scattering to the latex agglutination assay for rheumatoid factor, 1234

Digitoxin

a direct thermochemical approach to the digitoxin/albumin interaction (L), 1846

estn. of serum digitoxin by electron spin resonance spectrometry (A), 968

RIA of digoxin and digitoxin (SM), 1815

Digoxin

adaptation of a T₃-uptake test and of RIAs for serum digoxin, thyroxine, and triiodothyronine to an automated RIA system—"Centria", 1305

characteristics and criteria for judging acceptability of RIA methods which measure digoxin (A), 966

comparison of digoxin values obtained using several commercially available tritiated and iodinated digoxin methods (A), 966

comparison of five RIAs and enzyme bioassay for measurement of digoxin in blood, 857

effect of albumin on serum digoxin RIA, 402

effects on RIA of digoxin of varying incubation and adsorption periods, 227

evaln. of an I-125 digoxin RIA kit (L), 270

evaln. of two I-125 digoxin RIA kits (A), 966

homogeneous enzyme immunoassay for digoxin (A), 967

negligible interference by spirinolactone and prednisone in digoxin RIA (SN), 1801

practical applications of RIA theory: simple procedure yielding linear calibration curves, 1113

radioimmunoassay of digoxin: effect of albumin (L), 636

RIA kit-induced errors in serum digoxin measurement: critical evaln. of two systems (A), 966

RIA of digoxin and digitoxin (SM), 1815

RIA of digoxin: bioconversion of interference? (L), 1039

RIA of digoxin—interference by digitoxin (SN), 156

RIA of serum digoxin in antibody-coated polystyrene tubes using a I-125 digoxin derivative (A), 967

RIAs for serum digoxin, thyroxine and triiodothyronine and a T₃ uptake test adapted to the Union Carbide Centria (A), 967

Dihydromorphine

iodination of morphine and dihydromorphine, as related to RIA, 1498

Dihydroorotic acid

detn. of orotic and dihydroorotic acids in biol. fluids and tissues, 353

Diphenylhydantoin

detn. of diphenylhydantoin in human serum by spin immunoassay, 221

effect of diphenylhydantoin on serum Cu, Zn, and Mg (L), 637

enzymatic immunoassay vs. gas-liquid chromatog. for detn. of phenobarbital and diphenylhydantoin in serum, 1766

2,3-Diphosphoglycerate

erythrocyte 2,3-diphosphoglycerate as related to diabetes and obesity, 1414

manual detn. of intra-erythrocytic 2,3-diphosphoglycerate in blood by enzymatic anal.; comparison with ion-exchange chromatog. 376

Disaccharides

induction of increased intestinal permeability to disaccharide after ingestion of hypertonic solutions (A), 958

DNA

use of nucleic acid hybridization for specific detection of submicrogram quantities of DNA, and its application to plasma, 407

DNA and RNA metabolism

effect of Zn deficiency and repletion on thymidine metab. 544

DNA polymerase

microanal. system for detn. of picogram quantities of metals in metalloenzymes, as illustrated with Zn-containing enzymes, 591

Dopamine-β-hydroxylase

plasma dopamine-β-hydroxylase activity in rats with chronic constriction of the ascending aorta and acute blood volume expansion (A), 952

solid-phase RIA on polystyrene beads and application to dopamine-β-hydroxylase (SN), 148

DOPA oxidase

DOPA-oxidase activity in urine and its diagnostic importance for malignant melanoma (A), 1025

D-penicillamine

effects of D-penicillamine on hematolog. and biochem. of blood of Pb- or Cu-intoxicated rabbits (A), 998

Drug assay

See also Screening, Toxicology
anal. methodology (A), 931
anticonvulsant drugs: gas-chromatog. simultaneous detn. of primidone, phenylethylmalonamide, carbamazepine, and diphenylhydantoin, 1658
applications of vidicon spectrometer to anal. problems in clin. chem. 1192
benzodiazepine anal. as a monitoring tool (A), 947
dietary-induced liver ailment and drug metabolism (A), 960
drug concns. in body fluids as indicators for complications in drug therapy (A), 930
evaln. of a mass spectrometric procedure for detn. of anti-convulsant drugs in serum (A), 947
evaln. of a nitrogen-sensitive detector for gas-chromatographic anal. of anticonvulsants on micro blood and serum samples (A), 973
evaln. of RIA, enzyme immunoassay and spectrophotometry for clin. detn. of phenobarbital and diphenylhydantoin (A), 946
flash-heater ethylation of some antiepileptic drugs, 751
gas-chromatog. of anticonvulsant drugs, with no solvent evapn. (L), 1548
gas-chromatographic method for simultaneous assay of lidocaine and procainamide in serum (A), 974
gas-chromatographic procedure for simultaneous detn. of primidone, phenylethylmalonamide, carbamazepine and diphenylhydantoin suitable for therapeutic monitoring (A), 946
interest of detn. of furosemide in serum and urine (A), 947
method for measuring thioridazine, mesoridazine and their metabolites in plasma (A), 974
pharmacogenetic aspects: what do we need to know about the individual to interpret the data? (A), 931
precolumb methylation of phenobarbital with trimethylsilylamine hydroxide (L), 1346
rapid enzyme immunoassay of phenobarbital and dilantin on a centrifugal fast analyzer (A), 946
rational selection of assays to be used in monitoring therapeutic drugs (O), 1368
serum diphenylhydantoin in epileptic children in relation to drug dose and age (A), 973
simultaneous detection of morphine and barbiturates in urine by RIA, 1378
the pharmacological rationale—does body-fluid drug anal. provide a reliable basis for therapeutic control? (A), 930
therapeutic, toxic concns. of toxicologically significant drugs in blood, plasma, or serum (R), 44
use of a charcoal cartridge in isolating basic drugs from urine (L), 1852
Drug dependence
See Drug assay, Screening, Toxicology
Drugs of abuse
See Toxicology
Duchenne dystrophy
experimental model for Duchenne dystrophy (A), 1026
Egonine
detection of egonine in urine (L), 1538
Economics of laboratory operation
cost-effectiveness in clin. chem.—an attempt (A), 954
measuring laboratory activity and productivity (A), 954
systematic approach to enzyme assay optimization, illustrated by aminotransferase assays, 1939
Elastin
improved method for the detn. of elastin (A), 1021
Electrochromatography
automated elution electrophoresis: a potential clin. tool, 1217
Electrolytes
automated electrolyte measurements by ion-selective electrodes in serum and urine (A), 980
calibration of ion-selective electrodes for use in bio. fluids, 864
clin. evaln. of the Stat/Ion (A), 980
high-speed instrument system for anal. of serum Na and K (A), 981
measurement of true electrolyte composition of lipemic serum (A), 980

Electron-capture detectors

more efficient use of electron-capture detectors (L), 1041

Electron spin resonance

application of electron spin resonance to detn. of serum drug concns. 1323

Electron spin resonance spectrometry

estn. of serum digitoxin by electron spin resonance spectrometry (A), 968

Electrophoresis

automated elution electrophoresis: a potential clin. tool, 1217
comparison of electrophoresis on citrate agar, cellulose acetate, or starch for Hb identn. 1072
electrophoresis on cellulose acetate and chromatography on DEAE-Sephadex A-50 compared in the estn. of creatine kinase isoenzymes, 381
high-resolution high-voltage paper electrophoresis system for screening for aminoacidopathies (SN), 1980
improved densitometry of electrophoretic lipoprotein fractions, 183
methodologic differences in values by three techniques for M-proteins in serum, 243
sepn. of plasma creatine kinase isoenzymes by batch adsorption on glass beads, 844

Emergency procedures

continuous-flow measurement of lactate in blood: technique for the emergency laboratory, 113

Endarterectomy

detn. of urinary glycosaminoglycans following endarterectomy and myocardial infarction (A), 952

Endocrine disorders

routine RIA of plasma testosterone, and results for various endocrine disorders, 206

Endocrine therapy

simplified Scatchard-plot assay for estrogen receptor in human breast tumor, 1725

End-point procedures

use of the ABA-100 in end-point procedures (L), 1542

Energy flux and the nervous system

whole body energy flux and the autonomic nervous system (A), 958

Enzymatic assay

serum multiple enzymogram in neoplastic malignancies (A), 956

Enzymatic immunoassay

drug screening by enzymatic immunoassay with the centrifugal analyzer, 186
enzymatic immunoassay vs. gas/liquid chromatog. for detn. of phenobarbital and diphenylhydantoin in serum, 1766

Enzymatic method

enzymatic procedure for serum triglycerides (SN), 1983

Enzymatic methods

adaptation of immobilized enzymes for use in high-speed continuous-flow systems (A), 1017
colorimetric enzymatic detn. of serum total CO₂ as applied to the Vickers Multichannel 300 discrete analyzer, 1093
fluorometric enzymatic detn. of total cholesterol in serum, 1605
immobilized enzymes as biocatalysts in high-speed continuous-flow systems (A), 1017
improved method for enzymatic detn. of serum triglycerides, 1627
optimizing enzymatic methods for measuring compds. with a kinetic analyzer, 1263
specificity of oxidn. of bile-salt hydroxyl groups by crude extracts of *P. testosteronei* (ATCC 11996) used in detng. bile salts, 1630

Enzyme activity

See also Kinetic enzyme activity, and specific enzyme of interest
application of concept of normality index values as a means for obtaining uniformity in reporting clin. enzyme values (A), 976
are optimum conditions routinely necessary in enzyme assay? (L), 1845
azide as preservative in assays of aspartate aminotransferase acty. (SN), 158
CAP evaluation of the Beckman TR Enzyme Analyzer (A), 1033
detn. of certain serum enzymes (CPK, LDH, GOT and GPT): correlation between kinetic and conventional end-product measurement methods (A), 1029
detn. of phosphodiesterase I acty. in serum, 1383
diagnostic signif. of koizymes (A), 956
electronic correction of values that are "off-scale" in the SMA-6 system for continuous-flow anal. (SN), 151

evaln. of an automated detn. of aminotransferases on the Greiner Electronic Selective Analyzer "GSA II" (A), 1027
evaln. of the Beckman "System TR Enzyme Analyzer", 1107

expressing enzyme results (L), 271
expressing results for enzymes (L), 1042
human pancreatic and parotid amylase activities on different substrates, 343
inactivated serum vs. saline as a diluent in some serum enzyme assays (SN), 154
increased throughput on enzyme detns.: the time variable (A), 1018
measurement of erythrocyte glucose-6-phosphate dehydrogenase activity with a centrifugal analyzer, 134
protocol for evaluating enzyme measuring kits (A), 1000
red cell enzymes before and after Fe therapy in Fe deficiency anemia (A), 1034
response of two ratio-reporting techniques to systematic errors of enzyme methods (A), 976
serum and tissue enzyme activity and trace-element content in response to Zn deficiency in the pig, 568
signif. of measuring enzymes in human intestinal biopsies when investigating varying gluten susceptibility in coeliac disease (gluten enteropathy) (A), 958
solid-phase RIA on polystyrene beads and application to dopamine- β -hydroxylase (SN), 148
systematic approach to enzyme assay optimization, illustrated by aminotransferase assays, 1939
theoretical and experimental treatment of enzyme assays using auxiliary and indicator enzymes (A), 983
ultra-microassays of enzyme activities of single cultured cells (A), 938
use of reagent tablets for assay of three enzymes (L), 1544
vidicon spectrometer applied to simultaneous enzyme detns. 211

Enzyme degradation

metabolic regulation through control of enzyme degradation (A), 927

Enzymes, metabolism of

disposal of injected enzyme in the rabbit (A), 1019

Epilepsy

elevated serum gamma-glutamyltranspeptidase activities in epilepsy without complications (A), 996

Errata

See Corrections

Errors, source of

patients as their own controls: use of the computer to identify lab. error, 1648

Erythrocytes

erythrocyte and hemoglobin quantitations via a convenient "single tube" combined nephelometric-hemoglobin-cyanide manual technic: a reserve system for automated hemoglobinometry (A), 972

Erythrocyte volume

estimation of total red cell volume from total carbon monoxide binding capacity (A), 998
improved measurement of erythrocyte vol. distribution by aperture-counter signal anal. 1201

Erythropoiesis inhibitory factor

inhibition of Friend Virus-induced erythropoiesis by an erythropoiesis inhibitory factor (A), 998

Esterase

steroid esterase activity in human erythrocytes (A), 982

Estril

direct RIA for unconjugated estril in pregnancy serum, with use of a radioiodinated derivative of estril (SN), 1805

Estrogen-binding protein

assay of estrogen-binding protein in breast tumors (A), 1009

Estrogen receptor

simplified Scatchard-plot assay for estrogen receptor in human breast tumor, 1725

Estrogens

clin. application of estrogen-creatinine ratios in random samples of urine as a fetoplacental function test (A), 1010
correlation of total urinary estrogens and human chorionic somatotropin (A), 1009
detn. of estrogenic receptors in breast cancers (A), 1010
detn. of total estrogens and human placental lactogen in plasma of pregnant women by enzyme-immunoassay (A), 1009

- fluorometric micromethod for assay of urinary estrogens without hydrolysis and without solvent partition (A), 1009
- modified procedure for automatic measurement of urinary estrogens in pregnancy (A), 1009
- Ethchlorvynol**
- identn. of major product from acid-catalyzed reaction of ethchlorvynol (L), 169
- rate of decrease in serum ethchlorvynol concns. after extreme overdosage: a case study (SN), 894
- 2-Ethylhydracrylic aciduria**
- 2-ethylhydracrylic aciduria: metab. error available on demand (A), 1013
- Exercise, effects of**
- plasma renin, angiotensin II and plasma and urine aldosterone in an intense running exercise (A), 985
- Experimental error**
- See Variation, source of
- Farber's disease**
- above-normal urinary excretion of ceramides in Farber's disease, and characterization of their components by high-performance liquid chromatog. 725
- Fast analyzer**
- See Centrifugal analyzer
- FDA**
- an FDA clinical instrument "recall" (SR), 782
- Fecal amino acids**
- quant. method for estimating fecal amino acids, 1437
- Fetal status**
- automated detn. of serum ceruloplasmin acty. with *o*-dianisidine dihydrochloride as substrate, 757
- clin. application of estrogen-creatinine ratios in random samples of urine as a fetoplacental function test (A), 1010
- comparative clin. eval. of three methods for the estimation of pulmonary surfactant in hypopharyngeal aspirates of newborn infants (A), 950
- direct RIA for unconjugated estril in pregnancy serum, with use of a radiiodinated derivative of estril (SN), 1805
- radial immunodiffusion method for detn. of HPL as a test of placental function (A), 1010
- three lab. tests as a guide to normal placental function (A), 1010
- Fetal viability**
- assessment of phospholipid measurement in amniotic fluid, 1441
- Fibrinopeptide E**
- detection of fibrinopeptide E as index of consumptive coagulopathies (A), 999
- Flame-ionization detector**
- organic nitrogen-selective detector used in gas-chromatographic detn. of anticonvulsant and barbiturate drugs in plasma and tissues, 98
- Fluid mechanics**
- improved measurement of erythrocyte vol. distribution by aperture-counter signal anal. 1201
- Fluoride metabolism**
- retention of fluoride with time in man, 613
- Fluorometry**
- enzymatic detn. of serum urea on silicone-rubber pads, 67
- fluorometric assay for *N*-acetylprocainamide, 1899
- fluorometric assay of serum acid or alkaline phosphatase, either in soln. or on a semisolid surface, 1791
- fluorometric enzymatic detn. of total cholesterol in serum, 1605
- fluorometric screening for benzodiazepines in blood and urine, 1976
- fluorometric serum lipase assay: evaln. of monodecanoyl fluorescein as substrate, 1479
- fluorometry of citrate in serum, with use of citrate (*pro*-3S)-lyase, 730
- fluorometry of serum gamma-glutamyltransferase in solution and on a semi-solid surface, 715
- high-speed quant. karyotyping by flow microfluorimetry, 1258
- micro-scale photofluorometric detn. of "free erythrocyte porphyrin" (protoporphyrin IX) (SM), 1669
- potential of phosphorescence spectrometry in clin. chem.—new instrumentation and methods (R), 285
- semi-solid surface fluorometric anal. of glucose (SN), 1799
- sepn. of plasma creatine kinase isoenzymes by batch adsorption on glass beads, 844
- serum and erythrocyte argininosuccinate lyase assay by NADH fluorescence generated from formed fumarate, 230
- 5-Fluorouracil**
- detn. of 5-fluorouracil in serum of cancer patients (A), 1024
- Folate**
- anaemia of kwashiorkor and marasmus in Kenya: relation to folic acid and vitamin B12 (A), 1030
- comparison of commercial kits for RIA: III. radioassay of serum folate, 1922
- comparison of ¹²⁵I-folate radioassay with microbiological assay for serum folate (A), 1029
- effect of sodium ascorbate concns. on the detn. of serum folate (A), 1030
- folate binding to β -lactoglobulin from cow's milk (A), 1030
- pH dependence of the binding of folates to milk binder in radioassay of folates (SN), 427
- quench corrections in studying the binding of tritium-labelled folic acid and bovine milk protein (A), 1030
- radioassay for serum folate using an iodine-¹²⁵ derivative as tracer (A), 1029
- relative efficacy of sepn. of "free" and "bound" [3',5'-³H]pteroylglutamate by charcoal coated with various materials, 1927
- stability of tritiated folic acid used in RIA (A), 1030
- Follicle stimulating hormone**
- detn. of serum follicle stimulating hormone (A), 991
- Fucosidase**
- fluorometric measurement of human lysosomal α -L-fucosidase (A), 1014
- Galactose-1-phosphate uridylyltransferase**
- automated enzymatic method for detn. galactose-1-phosphate uridylyl transferase activity in erythrocytes (A), 982
- Gases**
- See Blood gases
- Gastrointestinal disease**
- relation between stomach wall lysozyme activity and microscopic picture of mucosa and submucosa in various gastro-duodenal disorders (A), 958
- Gastrointestinal physiology**
- quant. method for estimating fecal amino acids, 1437
- Genetics**
- human biochem. genetics of amino acid metab. (A), 920
- Gentamicin**
- enzyme-immuno competitive binding assay for plasma gentamicin (A), 967
- RIA of ¹²⁵I labelled gentamicin (A), 968
- Glucagon**
- glucagon stimulation of glucose, insulin, growth hormone, cortisol and luteinizing hormone (A), 986
- Glucose**
- a ref. method for glucose (A), 933
- catalase interference in glucose oxidase method for blood glucose of Gochman and Schmitz and its elimination (A), 978
- detn. of glucose in serum, using the hexokinase-method: comparison of *Leuconostoc mesenteroides* versus yeast glucose-6-phosphate-dehydrogenase (A), 979
- enzymatic method for detn. of serum glucose using the Clinocard system (A), 979
- evaln. of a fluidized bed system using immobilized enzymes for serum glucose detn. (A), 978
- evaln. of an automated glucose-oxidase procedure for glucose (SN), 1513
- evaln. of a new *o*-toluidine reagent for direct glucose detn. using AutoAnalyzer systems (A), 979
- evaln. of a procedure for glucose utilizing immobilized glucose oxidase (A), 978
- evaln. of Trinder's glucose oxidase method for measuring glucose in serum and urine, 1754
- hazards of *o*-toluidine (L), 1345
- inhibitory effect of fluoride on glucose tests with glucose oxidase strips (SN), 898
- interlab. comparison of enzymatic methods for serum glucose detn. 356
- kinetic adaptation of hexokinase glucose method which eliminates the effect of sample coloration and turbidity (A), 979
- kinetic detn. glucose with the centrifugal analyzer by the glucose dehydrogenase reaction, 1372
- materials in serum interfering with glucose oxidase-peroxidase-*o*-dianisidine method for glucose, and their mode of action, 119
- new whole-blood direct method for the detn. of blood sugar by an ultra high sensitive *o*-toluidine reagent (A), 979
- optimum kinetic enzymatic procedures for glucose and triglycerides in plasma and serum, 1448
- prepn. of a modified glucose oxidase reagent for the polarographic detn. of glucose with the Beckman "Glucose Analyzer", 760
- semi-solid surface fluorometric anal. of glucose (SN), 1799
- serum glucose anal. with Trinder's glucose oxidase method on the AA-I and 6/60 (A), 978
- sodium iodoacetate as an antiglycolytic agent in blood samples (SN), 1810
- thermochemical detns. of glucose in serum, plasma, and whole blood without prior deproteinization, 741
- validation of a simplification of proposed national ref. method for glucose by comparison with oxygen rate methods (A), 1037
- Glucose-6-phosphate dehydrogenase**
- erythrocyte glucose-6-phosphate dehydrogenase of deficient subjects with and without neonatal hyperbilirubinemia (A), 950
- erythrocyte glucose-6-phosphate dehydrogenase deficiency in Singapore (A), 983
- measurement of erythrocyte glucose-6-phosphate dehydrogenase activity with a centrifugal analyzer, 134
- Glucosephosphate isomerase**
- comparison of carcinoembryonic antigen and glucosephosphate isomerase as an index of cancer therapy (A), 1024
- β -Glucuronidase**
- new method for the detn. of 17-hydroxycorticosteroids (Porter-Silber chromogens) in urine—removal of endogenous β -glucuronidase inhibitors and contaminants induced by drug medication (A), 1023
- urinary beta-glucuronidase activity in renal disease (A), 955
- γ -Glutamyl transferase**
- comparison of discriminant value of γ -glutamyl transferase vs. alkaline phosphatase isoenzymes (A), 969
- comparison of methods for detn. of D-glutamyl transferase (A), 997
- fluorimetry of serum gamma-glutamyltransferase in solution and on a semi-solid surface, 715
- γ -glutamyltransferase assay (L), 1548
- lack of signif. effect of L(+)-glutamate on serum γ -glutamyltransferase acty. determined in the presence of glycylglycine (SN), 1515
- new substrates for detn. of gamma-glutamyltransferase (A), 996
- serum gamma-glutamyltransferase in alcoholics (A), 997
- γ -Glutamyltranspeptidase**
- automated kinetic detn. of gamma-glutamyltranspeptidase (A), 996
- elevated serum gamma-glutamyltranspeptidase activities in epilepsy without complications (A), 996
- gamma-glutamyltranspeptidase after portacaval shunt (A), 996
- gamma-glutamyl transpeptidase: unexpected elevations in the absence of hepatic disorders (A), 996
- glutamate and γ -glutamyltranspeptidase activity (L), 166
- serum glutamyl transpeptidase activity in identn. of elevated serum alk. phosphatase (A), 970
- Glutathione**
- detn. of glutathione by automatic amino acid anal. of various derivatives—rapid, sensitive procedure (A), 1002
- Glutathione reductase**
- glutathione reductase acty. measurements by an automated procedure: assessment of riboflavin status in man (A), 982
- α -Glycerophosphate dehydrogenase**
- kinetic and endpoint procedures for α -glycerophosphate dehydrogenase (A), 1016
- Glycols**
- rapid gas-chromatog. procedure for detg. glycols in serum, gastric and urine specimens (A), 1000
- Glycoproteins**
- liquid-chromatog. anal. for neutral carbohydrates in serum glycoproteins, 1314
- Glycosaminoglycans**
- detn. of urinary glycosaminoglycans following endarterectomy and myocardial infarction (A), 952
- glycosaminoglycan content of human cartilage in idiopathic scoliosis (A), 1027

- Gonadotropin releasing hormone**
RIA for gonadotropin-releasing hormone in serum (A), 991
- GOT**
See Aspartate aminotransferase
- Growth hormone**
practical applications of RIA theory: simple procedure yielding linear calibration curves, 1113
- Growth retardation**
short-term assessment of anabolic drug therapy for idiopathic growth retardation (A), 1027
- Guanidinoacetate**
evidence explaining the inverse relationship between guanidinoacetate and guanidinosuccinate in urine, 235
- Guanidino acids**
gas-liquid chromatog. measurement of guanidino acids, 838
- Guanidinosuccinate**
evidence explaining the inverse relationship between guanidinoacetate and guanidinosuccinate in urine, 235
hepatic synthesis of canavaninosuccinate from ureidohomoserine and aspartate; conversion to guanidinosuccinate, 1777
- Gynecology**
flow-system multiangle light-scattering instrument for cell characterization, 1297
- Hair**
trace elements in hair, as related to exposure in metropolitan New York, 603
- Heart disease**
detn. of phosphodiesterase I acty. in serum, 1383
diagnosis of heart and liver disease (L), 177
electrophoresis on cellulose acetate and chromatography on DEAE-Sephadex A-50 compared in the estn. of creatine kinase isoenzymes, 381
how best to diagnose heart disease from enzyme measurements? (L), 1347
immunofluorescence method for detecting anti-myocardial antibodies; use in diagnosing heart disease, 1903
instrument for rapid detn. of activities of lactate dehydrogenase isoenzymes, 1277
manual and automated method for detg. acty. of creatine kinase isoenzyme MB, by use of dithiothreitol: clin. applications, 1612
sepn. of creatine kinase isoenzymes in serum by ion-exchange column chromatog., 392
sepn. of plasma creatine kinase isoenzymes by batch adsorption on glass beads, 844
serum chromium, serum lipids, other risk factors and angiographically determined coronary artery disease (A), 953
- Hematocrit**
detg. hematocrits by wt. (L), 638
- Hematuria**
detection of hematuria (A), 998
- Heme compounds**
leuco-dyes in the quant. colorimetric microdetn. of hemoglobin and other heme compounds, 362
- Hemoglobin**
differentiation of myoglobin from hemoglobin and its estimation: studies on their separation and rates of filtration through membrane filters with molecular-sized pores (A), 999
erythrocyte and hemoglobin quantitations via a convenient "single tube" combined nephelometric-hemoglobin-cyanide manual technic: a reserve system for automated hemoglobinometry (A), 972
identn. of human hemoglobins via isoelectric focusing in gel, 1953
leuco-dyes in the quant. colorimetric microdetn. of hemoglobin and other heme compounds, 362
measurement of erythrocyte glucose-6-phosphate dehydrogenase activity with a centrifugal analyzer, 134
- Hemoglobin A₂**
estimation of hemoglobin A₂ without chromatog. or electrophoresis, 1490
- Hemoglobinopathies**
use of microchromatography in detection of hemoglobinopathies (A), 999
- Hemolytic disorders**
clin. detn. of methemalbumin, 1506
- Hepatic disease**
See Liver disease
- Hepatitis**
Hepatitis-contaminated control sera (L), 2004
- Hepatitis B antigen**
purifn. of hepatitis B antigen (A), 959
- Hexosaminidase**
automated differentiation and measurement of hexosaminidase isoenzymes in biol. fluids and application to pre- and postnatal detection of Tay-Sachs disease, 334
kinetic detn. of hexosaminidase for Tay-Sachs heterozygote screening (A), 1013
urinary hexosaminidase anal. for identn. of Tay-Sachs genotypes (A), 1013
- Hirsutism**
definition of a therapeutic category in idiopathic hirsutism (A), 1014
- History**
the double pelican (a cautionary tale), 1998
- Homeostasis**
metabolic homeostasis (A), 920
respiratory homeostasis (A), 919
- Hormone activity**
newer aspects of roles of Zn, Mn, and Cu in human nutrition (R), 501
- Hormones**
See the specific hormone of interest
a 3-h proced. for testing the hypothalamic-pituitary axis (A), 986
diurnal profiles of plasma cortisol, aldosterone, renin, angiotensinogen and angiotensinases in normal subjects (A), 986
double-antibody RIA for human LH and FSH: evaln. and detn. of optimal conditions (A), 992
glucagon stimulation of glucose, insulin, growth hormone, cortisol and luteinizing hormone (A), 986
nuclear acidic proteins from rat ventral prostate cells undergoing hypertrophy or hyperplasia (A), 987
stimulation of pancreatic secretion by continuous infusion of secretin and pancreozymin (A), 949
- 2-Hydroxybutyrate dehydrogenase**
comparison of various salts of α -ketobutyric acid as substrates for the detn. of 2-hydroxybutyrate dehydrogenase acty. (A), 1017
- Hydroxybutyric acid**
rapid detn. of lactic, hydroxybutyric, and acetoacetic acids in whole blood by high-pressure liquid chromatog. (A), 1016
- Hydroxymethylglutaryl-CoA reductase (NADPH)**
indirect assessment of hydroxymethylglutaryl-CoA reductase (NADPH) acty. in liver tissue (SN), 1523
- 3-(4-Hydroxyphenyl) propionic acid hydroxysuccinimide ester-¹²⁵I**
hazards in the prepn. and use of 3-(4-hydroxyphenyl) propionic acid hydroxysuccinimide ester-¹²⁵I (A), 993
- Hyperalimentation**
amino acid metab. in i.v. alimentation (A), 930
biochem. and nutritional aspects of fat emulsions for i.v. use (A), 929
man—the skin-covered test tube (A), 928
metab. of endogenous and exogenous substrates during i.v. alimentation (A), 929
- Hyperbilirubinemia**
red cell enzymes in neonatal hyperbilirubinemia (A), 982
- Hyperglycemia**
behaviour of biochemical parameters in sudden hyperglycemia (A), 957
- Hyperlipoproteinemia**
diagnosis of Type III hyperlipoproteinemia by chromatog. of plasma lipoproteins on columns containing agarose, 1887
- Hyperparathyroidism**
use of the theoretical renal phosphorus threshold in diagnosis of hyperparathyroidism (A), 960
- Hypothyroidism**
screening for hypothyroidism in newborns (A), 951
the free thyroxine index in primary hypothyroidism (A), 952
- Ig**
See Immunoglobulin(s), Immunologic disorders
- Immunochimistry**
See also Radioassay, Radioimmunoassay
carcinoembryonic antigen (A), 934
clin. applications of enzyme-linked immunoassay techniques (A), 936
immune response in patients with malignant paraproteinemia (A), 1025
immunochem. protein profile anal. on a GEMSAEC centrifugal analyzer with EDP-assisted patient-file print-out (A), 1021
immunoglobulins, C-reactive protein and tumor antigens in malignant diseases (A), 945
methodologic differences in values by three techniques for M-proteins in serum, 243
outcome of immunochem. interactions (A), 984
rapid nondestructive assay for fluorescamine and/or MDPP, protein and F/P-ratios in fluorescent antibody-conjugates (A), 944
standn. of quantitation of human immunoglobulins (A), 934
surface immune pptn., a new rapid technique for immune complex anal. (A), 984
- Immunodiffusion**
improved estn. of urinary myoglobulin by counterimmunoelectrophoresis, as compared with double immunodiffusion, 765
- Immunoelectrophoresis**
lab. diagnosis of Bence Jones proteinuria in a patient with plasma cell leukemia (CR), 1683
should gels be washed or pressed to remove excess protein? (L), 637
- Immunoelectrophoretic, quantitative**
quant. immunoelectrophoretic methods: lit. survey (R), 5
- Immunoglobulins**
abnormal immunoglobulins in malignant lymphoma (A), 944
automated nephelometric measurement of immunoglobulins: system for data management and quality control (A), 943
comparison of serum immunoglobulin values obtained using several commercially available radial immunodiffusion methods (A), 943
detn. of normal serum immunoglobulins by radial diffusion (A), 943
evaln. of immunoglobulin synthesis within the central nervous system (A), 945
evaln. of kinetic light scattering as an approach to measurement of specific proteins with the centrifugal analyzer. I. Methodology, 1731
evaln. of kinetic light scattering as an approach to measurement of specific proteins with the centrifugal analyzer. II. Theoretical considerations, 1735
immunoglobulins, C-reactive protein and tumor antigens in malignant diseases (A), 945
kinetic nephelometric measurement of IgG and albumin in serum and CSF using a laser-modified Aminco Rotochem (A), 943
polymer-enhanced automated nephelometric anal. of IgG using protein A (*S. aureus*) as reagent (A), 944
serum immunoglobulins after surgery, 667
- Immunological deficiency diseases**
cellular and enzymatic bases of immunological deficiency diseases (A), 935
- Immunologic disorders**
adenosine aminohydrolase as an indicator of immune status (A), 984
improved immunofluorescence anal. of antimycardial antibodies using Evans Blue counterstaining (A), 985
lymphocyte inhibition by a thymic factor (A), 985
- Immunology**
the immunologic revolution (A), 918
- Immunonephelometry**
electronic timing of a high-speed immunonephelometric continuous-flow system, 762
- Inborn errors of metabolism**
See Inherited disorders
- Infection**
serum immunoglobulins after surgery, 667
- Infectious disease**
serum Zn, Fe, and Cu concns. during typhoid fever in man: effect of chloramphenicol therapy, 528
- Information for authors**
information for authors, 1
- Inherited disorders**
automated differentiation and measurement of hexosaminidase isoenzymes in biol. fluids and application to pre- and postnatal detection of Tay-Sachs disease, 334
biochem. studies on a genetic defect in histidine metabolism, absence of liver urocanase (A), 1012
carrier detection in X-linked recessive inherited metabolic disease (A), 937
detn. of orotic and dihydroorotic acids in biol. fluids and tissues, 353
diagnosis of cystinosis by use of conjunctival biopsies (CR), 1996
errors of amino acid metabolism and retardation in mental development (A), 1013
fluorimetric measurement of human lysosomal α -L-fucosidase (A), 1014
genetic storage diseases and lysosomal enzyme defects (A), 920
inborn errors of metabolism—a challenge to the clinical chemist (O), 63
increased inorg. pyrophosphate in serum and urine of patients with osteogenesis imperfecta, 104

- prenatal diagnosis of osteogenesis imperfecta (A), 1014
- scope of mass spectrometry in clin. chem. (R), 803
- Instrumentation**
- standardizing ^{125}I sources and determining ^{125}I counting efficiencies of well-type gamma counting systems, 370
- theory of photometric errors applied to design and evaln. of a high-performance filter photometer, 249
- Insulin**
- comparison of methods for separating free from bound tracer in RIA of insulin (A), 1035
- double-antibody RIA of serum insulin: use of hormone-depleted human serum (SN), 1520
- practical applications of RIA theory: simple procedure yielding linear calibration curves, 1113
- quantn. of free, total, and antibody-bound insulin in insulin-treated diabetics, 873
- relationship of fetal insulin to maternal blood glucose (A), 957
- routine insulin levels with oral glucose tolerance tests (A), 957
- Interlaboratory performance**
- multi-center comparative study of serum separation methods (A), 971
- standards for total serum protein assays—a collaborative study, 1159
- Intermethod comparison**
- colorimetric, enzymatic, and liquid-chromatog. methods for serum uric acid compared, 1427
- kinetic detn. glucose with the centrifugal analyzer by the glucose dehydrogenase reaction, 1372
- optimum kinetic enzymatic procedures for glucose and triglycerides in plasma and serum, 1448
- Radioimmunoassay compared with thin-layer chromatog. and gas-liquid chromatog. methods of barbiturate detection in human urine, 672
- International Congress on Clinical Chemistry, Ninth**
- abstracts of meeting papers, 941
- symposia, lectures and abstracts, 918
- International meetings**
- Internat. Congress Clin. Chem., Toronto, Ninth, 1559
- Internat. Congress on Clin. Chem., Toronto, Ninth, 456
- Internat. Symposium on Clin. Enzymol., Second, 1559
- Intravenous alimentation**
- intra- and extra-cellular changes induced by infusions of hypertonic carbohydrate solns. (A), 957
- metabolic changes during hyperalimentation (A), 959
- Ion-selective electrodes**
- calibration of ion-selective electrodes for use in biol. fluids, 864
- detn. of Na^+ and K^+ in urine with ion-selective electrodes in an automated analyzer, 1572
- Iron**
- automated micro determination of total serum Fe without dialysis (A), 995
- automated, micro procedure for serum Fe and total iron-binding capacity using ferrozine and the GEMSAEC centrifugal analyzer (A), 964
- serum vitamin B12, Fe, and total Fe-binding capacity in strict vegetarians and nonvegetarians by radiosorbent assay (A), 1007
- Iron deficiency**
- erythrocyte protoporphyrin in detection of Fe deficiency, 1121
- Irradiation, effects of**
- biochem. changes in the red cell membrane following irradiation of plasma (A), 998
- Isoelectric focusing**
- identn. of human hemoglobins via isoelectric focusing in gel, 1953
- Isoniazid**
- radioimmunoassay for isoniazid, 1059
- Jaundice, Creatinine**
- anomalous results obtained on severely jaundiced serums with a direct creatinine reaction (A), 1002
- Karyotyping**
- high-speed quant. karyotyping by flow microfluorimetry, 1258
- Ketosis**
- 5-decynedioic acid, an acetylenic compound in human urine, 1964
- 17-Ketosteroids**
- interference of ethinamate in detn. of urinary 17-ketosteroids (A), 1023
- spectrophotometric study of drug interferences in an aqueous 17-ketosteroid reaction and two nonworkable suggested corrections for irrelevant absorption (A), 1023
- Kidney**
- See Renal
- Kidney disease**
- automated immunochem. method for detn. of urinary protein of plasma origin, 1465
- functional state of the total nephron mass studied by differential protein clearances (A), 1020
- protein clearance in chronic nephropathies (A), 1020
- stat diagnosis of kidney infection using urinary LDH isoenzyme V as assayed on the Du Pont ACA (A), 1018
- urinary amylase:creatinine ratio in renal transplantation and kidney disease (A), 955
- Kidney function**
- simplified detn. of plasma p-aminohippurate in testing kidney function (L), 447
- Kinases**
- cyclic nucleotide binding proteins, protein kinases and DNA-dependent RNA polymerases in rat mammary gland nuclear extracts (A), 987
- Kinetic analyzer**
- evaln. of the "System Olli 3000" kinetic uv analyzer for measuring aspartate and alanine aminotransferase and lactate dehydrogenase activities in serum, 676
- Kinetic enzyme assay**
- kinetic enzymatic method for determining serum creatinine, 1422
- multipoint kinetic analysis for first-order chemistries (A), 965
- optimizing enzymatic methods for measuring compds. with a kinetic analyzer, 1263
- Kit methods**
- comparison of commercial kits, with an optimized method for creatine kinase in serum (A), 987
- comparison of five RIAs and enzyme bioassay for measurement of digoxin in blood, 857
- direct method for measuring lipoprotein-X in serum, 853
- effect of albumin on serum digoxin RIA, 402
- effects on RIA of digoxin of varying incubation and adsorption periods, 227
- evaln. of an I-125 digoxin RIA kit (L), 270
- evaln. of the Beckman "System TR Enzyme Analyzer", 1107
- evaln. of the CentrifChem centrifugal parallel fast analyzer and its performance with various "kits" of reagents (A), 964
- immunological measurement of transferrin compared with chem. measurement of total iron-binding capacity, 1063
- negligible interference by spironolactone and prednisone in digoxin RIA (SN), 1801
- network anal. of six T3 RIA procedures (A), 1012
- ne v scheme for the evaln. of methods in clin. chem. (A), 999
- new, simple maltogenic assay for mechanized detn. of alpha-amylase acty. in serum and urine, 694
- optimum kinetic enzymatic procedures for glucose and triglycerides in plasma and serum, 1448
- protocol for evaluating enzyme measuring kits (A), 1000
- quantn. of free, total, and antibody-bound insulin in insulin-treated diabetics, 873
- Radioimmunoassay compared with thin-layer chromatog. and gas-liquid chromatog. methods of barbiturate detection in human urine, 672
- RIA of drugs subject to abuse: critical evaln. of urinary morphine-barbiturate, morphine, barbiturate, and amphetamine assays, 81
- thyroid-function tests in diphenylhydantoin-treated patients, 1388
- Klinefelter's syndrome**
- bone density & steroid changes in Klinefelter's syndrome (A), 1014
- Lactate**
- continuous-flow measurement of lactate in blood: technique for the emergency laboratory, 113
- rapid kinetic meas. of lactate in plasma with a centr. analyzer, 1932
- Lactate dehydrogenase**
- evaln. of the "System Olli 3000" kinetic uv analyzer for measuring aspartate and alanine aminotransferase and lactate dehydrogenase activities in serum, 676
- instrument for rapid detn. of activities of lactate dehydrogenase isoenzymes, 1277
- kinetic assay of lactate dehydrogenase acty. (A), 1018
- lactate dehydrogenase activities in serum and plasma (A), 997
- LDH M-subunits inhibitory factors in human sera (A), 997
- simultaneous sepn. of serum creatine kinase and lactate dehydrogenase isoenzymes by ion-exchange column chromatog. 1102
- stat diagnosis of kidney infection using urinary LDH isoenzyme V as assayed on the Du Pont ACA (A), 1018
- unusual lactate dehydrogenase isoenzyme (CR), 162
- urinary alk. phosphatase and lactate dehydrogenase enzyme and isoenzyme excretion in health and disease. I. patterns in healthy subjects (A), 1034
- variation of lactate dehydrogenase acty. with oxo-acid substrate (A), 997
- venous serum, capillary serum, and capillary plasma compared for use in detn. of lactate dehydrogenase and aspartate aminotransferase activities (SN), 896
- vidicon spectrometer applied to simultaneous enzyme detns. 211
- Lactic acid**
- measurement of lactic acid in plasma with a centrifugal analyzer (A), 1015
- rapid detn. of blood, serum or plasma lactic acid (A), 1036
- rapid detn. of lactic, hydroxybutyric, and acetoacetic acids in whole blood by high-pressure liquid chromatog. (A), 1016
- rapid two-point kinetic detn. of plasma lactic acid (A), 1016
- Laser**
- application of differential light scattering to the latex agglutination assay for rheumatoid factor, 1234
- flow-system multiangle light-scattering instrument for cell characterization, 1297
- potential for clin. use of anal. laser microprobe for element measurement, 1238
- LDH**
- See Lactate dehydrogenase
- Lead**
- anal. of Pb in blood using the carbon rod atomizer: comparison of three methods (A), 994
- direct detn. of Pb in urine by flameless at. ab. spectrometry (A), 993
- evaln. of blood Δ -aminolevulinic acid dehydratase acty. as a test for organic Pb poisoning (A), 994
- improved method for determining Pb in whole blood and urine using a Delves cup at. ab. procedure (A), 994
- micro-scale blood Pb detns. in screening: evaln. of factors affecting results, 533
- use of the carbon rod atomizer for anal. of lead in blood: three methods compared (SN), 1986
- Lead poisoning**
- fluorometric detn. of δ -aminolaevulinat dehydratase acty. in human erythrocytes as index to lead exposure, 1783
- micromethod for Pb detn. in whole blood by at. absorption, with use of the graphite furnace, 558
- micro-scale blood Pb detns. in screening: evaln. of factors affecting results, 533
- zinc protoporphyrin: simple, sensitive, fluorometric screening test for lead poisoning, 93
- Lecithin:cholesterol acyltransferase**
- assay of plasma lecithin:cholesterol acyltransferase (A), 972
- lecithin:cholesterol acyltransferase acty. in cord serum and in serum of adults with normal coronary angiograms (A), 972
- Lecithin:sphingomyelin ratio**
- assessment of phospholipid measurement in amniotic fluid, 1441
- lecithin:sphingomyelin ratio in amniotic fluid, as assessed by a modified thin-layer chromatographic method (commercial pre-coated plate) (SN), 260
- Leukemia**
- lab. diagnosis of Bence Jones proteinuria in a patient with plasma cell leukemia (CR), 1683
- Leukocytes**
- enzyme activities of NADPH-forming metabolic pathways in normal and leukemic leukocytes, 880
- Lipase**
- a rapid kinetic nephelometric method for the determination of amylase and lipase with the Perkin-Elmer model 91 analyzer (A), 948
- fluorometric method for measuring serum lipase acty. 1788
- fluorometric serum lipase assay: evaln. of monodecanoyl fluorescein as substrate, 1479

- kinetic determination of lipase using the ABA-100 (A), 948
- photometric copper-soap method for rapid assay of serum lipase acty. 1469
- rapid kinetic determination of serum lipase (A), 948
- Lipids**
- improved densitometry of electrophoretic lipoprotein fractions, 183
- in vitro interactions of surfactant lipids with alveolar proteins (A), 1035
- lipid d-tn. in microquantities of plasma using thin-layer chromatog. and in situ spectr-fluorimetry (A), 991
- storage of glyceryl ether lipids in a case of Wolman's disease (A), 1013
- Lipogranulomatosis**
- above-normal urinary excretion of ceramides in Farber's disease, and characterization of their components by high-performance liquid chromatog. 725
- Lipoproteinemia**
- See also Lipoproteins
- hyper-alpha-lipoproteinemia: a case study (L), 639
- potential screening-technique for hyperlipoproteinemia (A), 989
- serum lipoproteins and lipids of familial hyper-, hypo-, or normo-beta-lipoproteinemic subjects during pregnancy (A), 990
- Lipoproteins**
- another view on lipoprotein electrophoresis (L), 2004
- catabolic defect in subjects with normal lipoproteins (A), 990
- direct method for measuring lipoprotein-X in serum, 853
- evaln. and significance of detn. of apo-A and apo-B lipoproteins: comparison of techniques between AIP and Laurell's EID (A), 990
- improved densitometry of electrophoretic lipoprotein fractions, 183
- isolation and detn. of serum and lipoprotein lipids (A), 990
- lipoprotein electrophoresis should be discontinued as a routine procedure (O), 300
- measurement of lipoproteins on cellulose acetate, improvements and simplifications of ozonization method (A), 991
- molecular distn. of plasma lipoproteins in type IV hyperlipoproteinemia (A), 990
- phenotyping of dyslipoproteinemias by means of quantified lipoproteins beta and pre-beta without ultracentrifugation (A), 989
- predictive value of lipoprotein abnormalities in development of carbohydrate intolerance (A), 958
- serum lipoproteins and lipids of familial hyper-, hypo-, or normo-beta-lipoproteinemic subjects during pregnancy (A), 990
- stable lipoprotein electrophoresis control (L), 452
- Lithium**
- interference effects of biol. material in non-flame at. ab. spectrometry of Li (A), 981
- Liver**
- ultramicro anal. for Cu, Cd, and Zn in human liver tissue by use of at. absorption spectrophotometry and the heated graphite tube atomizer, 537
- Liver disease**
- application of discriminant function anal. and computer-assisted statistical classification procedures to diagnosis of hepatobiliary disease from liver function test results (A), 977
- colorimetric measurement of ornithine carbamoyl transferase acty. in plasma; results for a supposedly healthy popn. 1716
- detn. of phosphodiesterase I acty. in serum, 1383
- diagnosis of heart and liver disease (L), 177
- diagnostic usefulness of liver-function tests in biopsy-proven liver disease evaluated by discriminant anal. and interaction effects anal. (A), 977
- diagnostic value of routine liver tests, 71
- electrophoretic assessment of normal and pathological distn. of alk. phosphatase isoenzymes in serum, 1128
- fluorimetric detn. of "albumin-titratable bilirubin" in the jaundiced neonate, 1638
- gamma-glutamyl transpeptidase: unexpected elevations in the absence of hepatic disorders (A), 996
- liver profiling using the Vickers D300 discrete analyser (A), 959
- more sensitive automated method for detn. of ornithine carbamoyltransferase acty. in human serum, 754
- reaction-rate assay of serum sorbitol dehydrogenase acty. at 37 °C, 1619
- removal of ammonia by formation of amino acids in rats with nutritional and toxic liver damage (A), 1002
- serum and erythrocyte argininosuccinate lyase assay by NADH fluorescence generated from formed fumarate, 230
- Liver tests**
- diagnostic value of routine liver tests, 71
- Lupus erythematosus**
- use of nucleic acid hybridization for specific detection of submicrogram quantities of DNA, and its application to plasma, 407
- Lymphocytes**
- citrate synthesis by lymphocytes, 825
- Lysozyme**
- relation between stomach wall lysozyme activity and microscopic picture of mucosa and submucosa in various gastro-duodenal disorders (A), 958
- Lysozymuria**
- lysozymuria as index of renal lesion in pancreatitis (A), 955
- Magnesium**
- automated proced. for serum magnesium (L), 169
- interlaboratory study of methods for Ca and Mg in serum (A), 961
- Mass fragmentography**
- mass fragmentography of retinoic acid: a sensitive and specific detn. of vitamin A acid in biol. samples (A), 1031
- Mass spectrometry**
- clin. applications of gas chromatograph: mass spectrometer: computer systems, 1282
- clin. mass spectrometry (A), 935
- gas-chromatog. mass-spec. detection of low-molecular-weight aliphatic alcohols in urine of normal individuals and patients with diabetes mellitus, 1294
- gas-chromatog. mass-spectrometric identn. and quantn. of tetrone and deoxytetrone acids in urine from normal adults and neonates, 1892
- identn. of some abnormal metabolites in plasma from uremic subjects, 1329
- scope of mass spectrometry in clin. chem. (R), 803
- stable isotope ratio meter—multiple ion detector unit for quant. and qual. stable isotope studies by gas chromatog.—mass spectrometry, 1253
- use of high-resolution open tubular glass capillary columns to separate acidic metabolites in urine (SN), 888
- Mechanized analysis**
- See Analytical systems, Centrifugal analyzer, Continuous-flow analysis, or specific instrument of interest
- Melanin**
- melanin as a free-radical scavenger (A), 1026
- Mercury**
- kinetic assay of Hg by a ligand exchange reaction followed spectrophotometrically with the GEMSAEC analyzer (A), 994
- Metabolic regulation**
- metabolic regulation through control of enzyme degradation (A), 927
- molecular strategy of metabolic regulation (A), 926
- regulation of purine metabolism in man (A), 926
- Metabolism**
- control of fuel metabolism in man (A), 928
- Metabolites**
- volatile metabolites in normal and pathological biol. fluids (A), 1001
- Metachromatic leukodystrophy**
- above-normal urinary excretion of ceramides in Farber's disease, and characterization of their components by high-performance liquid chromatog. 725
- Metalloenzymes**
- microanal. system for detn. of picogram quantities of metals in metalloenzymes, as illustrated with Zn-containing enzymes, 591
- Metanephries**
- improved method for detng. metanephries (A), 1037
- Methaqualone**
- RIA of methaqualone and its monohydroxy metabolites in urine, 1878
- Methemalbumin**
- clin. detn. of methemalbumin, 1506
- Methemoglobin**
- standn. of methemoglobin anal. with nitrite (L), 269
- Method-comparison**
- statistical evaln. of method-comparison data, 315
- Metrapone test**
- nonchromatog. RIA of plasma
- 11-leoxycortisol, for use in the metrapone test, with polyethylene glycol as the precipitant, 719
- Microwave spectrometry**
- microanal. system for detn. of picogram quantities of metals in metalloenzymes, as illustrated with Zn-containing enzymes, 591
- Mineral metabolism**
- See Trace elements or specific element of interest
- Monoclonal gammopathies**
- identn. of monoclonal gammopathies (A), 944
- methodologic differences in values by three techniques for M-proteins in serum, 243
- Monoglyceride hydrolase**
- monoglyceride hydrolase in post-heparin plasma (A), 1029
- Morphine**
- comparison of results for morphine urinallyses by RIA and thin-layer chromatog. in a narcotic clinic setting (SN), 417
- gas chromatog:thin-layer chromatog. anal. of acetylated codeine and morphine in urine, 1486
- iodination of morphine and dihydromorphine, as related to RIA, 1498
- preliminary evaln. of a latex agglutination-inhibition tube test for morphine, 139
- Mucopolidoses**
- diagnosis of mucopolysaccharidoses and mucopolidoses in cultured fibroblasts (A), 937
- Mucopolysaccharidoses**
- diagnosis of mucopolysaccharidoses and mucopolidoses in cultured fibroblasts (A), 937
- Multiple myeloma**
- serum ribonuclease acty. in multiple myeloma (L), 1345
- Myocardial infarction**
- cardiac-specific creatine phosphokinase isoenzyme in the diagnosis of acute myocardial infarction (A), 974
- chromatog. and electrophoretic sepn. of creatine kinase isoenzymes compared, 1601
- chromatographic and electrophoretic sepn. of CPK isoenzymes following myocardial infarction (A), 974
- CPK isoenzyme marker, necessity for its use in isoenzyme identification, and a phenomenon of lyophilized preparations (A), 963
- creatine kinase isoenzymes in myocardial infarction (A), 975
- creatine phosphokinase isoenzymes in myocardial infarction with atypical enzyme profile (A), 974
- detection of cardiac-specific creatine kinase isoenzyme in sera with normal or slightly increased total creatine kinase acty. 1088
- detn. of creatine phosphokinase isoenzymes in sera of patients with acute myocardial infarction and exogenous intoxications by immunoprecipitation (A), 989
- detn. of urinary glycosaminoglycans following endarterectomy and myocardial infarction (A), 952
- factors affecting assay of myoglobin by complement fixation or immunodiffusion, 1654
- immunofluorescence method for detecting anti-myocardial antibodies; use in diagnosing heart disease, 1903
- improved estn. of urinary myoglobin by counterimmunoelectrophoresis, as compared with double immunodiffusion, 765
- influence of myocardial infarction on serum Mn, Cu, and Zn concns. 578
- kinetic model for time profile of serum creatine phosphokinase activity following myocardial infarction (A), 975
- manual and automated method for detng. acty. of creatine kinase isoenzyme MB, by use of dithiothreitol: clin. applications, 1612
- relative predictive value of cyclic AMP levels and of other biochemical prognostic indicators in acute myocardial infarction (A), 952
- sepn. of plasma creatine kinase isoenzymes by batch adsorption on glass beads, 844
- simultaneous sepn. of serum creatine kinase and lactate dehydrogenase isoenzymes by ion-exchange column chromatog. 1102
- trend and cluster analysis in diagnosis and prognosis of myocardial infarction (A), 921
- Myoglobin**
- differentiation of myoglobin from hemoglobin and its estimation: studies on their separation and rates of filtration through membrane filters with molecular-sized pores (A), 999
- factors affecting assay of myoglobin by

- complement fixation or immunodiffusion, 1654
- Myoglobulin**
improved estn. of urinary myoglobin by counterimmunoelectrophoresis, as compared with double immunodiffusion, 765
- NADH**
molar absorptivities of beta-NADH and beta-NAD at 260 nm, 884
- NADPH**
enzyme activities of NADPH-forming metabolic pathways in normal and leukemic leukocytes, 880
- Nat. Comm. for Clin. Lab. Stds.**
NCCLS and voluntary consensus stds. for the clin. lab. (SR), 1531
- National Registry in Clinical Chemistry**
National Registry in Clin. Chem. 797
- Neonatal chemistry**
See Pediatric chemistry
- Nephelometry**
automated immunochem. method for detn. of urinary protein of plasma origin, 1465
- Neutron activation analysis**
influence of myocardial infarction on serum Mn, Cu, and Zn concs. 578
- Newborns**
See also Pediatric chemistry
biochemical acid-base balance in umbilical cord blood of the newborn (A), 950
comparative clinical evaluation of three methods for the estimation of pulmonary surfactant in hypopharyngeal aspirates of newborn infants (A), 950
red cell enzymes in neonatal hyperbilirubinemia (A), 982
screening for hypothyroidism in newborns (A), 951
serum proteins in premature and newborn infants (A), 950
- Nickel**
binding of $^{63}\text{Ni(II)}$ to ultrafiltrable constituents of rabbit serum in vivo and in vitro, 521
technique for detg. Ni in blood by flameless at. absorption spectrophotometry, 562
- Norcodeine**
gas-chromatographic measurement of codeine and norcodeine in human plasma, 1956
- Normal values**
See also Reference values
above-normal urinary excretion of ceramides in Farber's disease, and characterization of their components by high-performance liquid chromatog. 725
age-sex specific ref. values for serum uric acid in a representative human popn. (A), 1008
assay of L-tyrosine in serum by amperometry of tyrosinase-catalyzed oxygen consumption, 325
automated differentiation and measurement of hexosaminidase isoenzymes in biol. fluids and application to pre- and postnatal detection of Tay-Sachs disease, 334
comparison of clin. assays for serum corticosteroids, 387
current concepts of "normal values," "reference values" and "discrimination values" in clin. chem. (E), 1873
5-decynoic acid, an acetylenic compound in human urine, 1964
detn. of Cd in blood and urine by graphite furnace at. absorption spectrophotometry, 626
electrophoresis on cellulose acetate and chromatography on DEAE-Sephadex A-50 compared in the estn. of creatine kinase isoenzymes, 381
evaln. of the revised serum Ca procedure used with the Du Pont Automatic Clinical Analyzer, 850
examin. of some factors affecting sensitivity and reproducibility in RIA of thyrotropin, 347
fluorimetry of citrate in serum, with use of citrate (*pro-3S*)-lyase, 730
immunological measurement of transferrin compared, with chem. measurement of total iron-binding capacity, 1063
impact of laboratory error on the normal range: a Bayesian model, 321
increased inorg. pyrophosphate in serum and urine of patients with osteogenesis imperfecta, 104
influence of individual factors on normal values (A), 1008
micro-scale photofluorometric detn. of "free erythrocyte porphyrin" (protoporphyrin IX) (SR), 1669
more sensitive automated method for detn. of ornithine carbamoyltransferase acty. in human serum, 754
newer aspects of roles of Zn, Mn, and Cu in
- human nutrition (R), 501
new, simple maltogenic assay for mechanized detn. of alpha-amylase acty. in serum and urine, 694
percentile estimate of ref. values for 9 chem. constituents in serum in children (A), 1007
quantn. of free, total, and antibody-bound insulin in insulin-treated diabetics, 873
radioimmunoassay of plasma testosterone, with use of polyethylene glycol to separate antibody-bound and free hormone, 708
ref. values for creatine kinase activity in serum (A), 1008
ref. values in human chem. (A), 925
routine RIA of plasma testosterone, and results for various endocrine disorders, 206
serum and erythrocyte argininosuccinate lyase assay by NADH fluorescence generated from formed fumarate, 230
simultaneous sepn. of serum creatine kinase and lactate dehydrogenase isoenzymes by ion-exchange column chromatog. 1102
some theory of ref. values (A), 1007
technique for detg. Ni in blood by flameless at. absorption spectrophotometry, 562
ultramicro anal. for Cu, Cd, and Zn in human liver tissue by use of at. absorption spectrophotometry and the heated graphite tube atomizer, 537
- Nuclear magnetic resonance**
gas-liquid chromatog. measurement of guanidino acids, 838
- Nuclease**
spectrophotometry of nuclease and antinuclease activity using the GeMSAEC analyzer (A), 1017
- Nucleic acids**
use of nucleic acid hybridization for specific detection of submicrogram quantities of DNA, and its application to plasma, 407
- Nucleotides**
anal. system for rapid sepn. of tissue nucleotides at low pressures on conventional anion exchangers, 1245
cyclic nucleotide binding proteins, protein kinases and DNA-dependent RNA polymerases in rat mammary gland nuclear extracts (A), 987
- Nutrition**
newer aspects of roles of Zn, Mn, and Cu in human nutrition (R), 501
trace-element nutrition in health and disease: contributions and problems of anal. (E), 468
- Obesity**
erythrocyte 2,3-diphosphoglycerate as related to diabetes and obesity, 1414
- Ornithine carbamoyl transferase**
colorimetric measurement of ornithine carbamoyl transferase acty. in plasma; results for a supposedly healthy popn. 1716
more sensitive automated method for detn. of ornithine carbamoyltransferase acty. in human serum, 754
- Orotic acid**
detn. of orotic and dihydroorotic acids in biol. fluids and tissues, 353
- Osmolality**
methods compared for calcg. serum osmolality from chem. concns., and the prognostic value of such calcns. 190
osmolality—calculated, "delta," and more formulas (correction) (L), 1182
- Osteomalacia**
biochem. indices of osteomalacia in pregnant Asian immigrants to Britain (A), 960
- Osteoporosis**
retention of fluoride with time in man, 613
- Oxalate**
precision of urinary oxalate determination (L), 1692
- Oxygen dissociation curve**
continuous detn. of oxygen dissociation curve for whole blood, 1747
- Pancreatic disease**
fluorometric method for measuring serum lipase acty. 1788
- Pancreatitis**
lysozymuria as index of renal lesion in pancreatitis (A), 955
- Pediatric chemistry**
alpha-anti-trypsin studies in the neonate (A), 949
an automated dual wavelength method for the determination of pediatric total bilirubin (A), 950
automated extraction and simultaneous detn. of serum cholesterol and triglycerides, 1430
coagulation-time detn. with automatic multivariable anal., with a miniature centrifugal analyzer, 1288
congenital fatal lactic acidosis in infancy with alaninemia possibly due to a defect at the citrate synthase level (A), 949
- detn. of serum Cu by at. absorption, with use of the graphite cuvet, 619
erythrocyte glucose-6-phosphate dehydrogenase of deficient subjects with and without neonatal hyperbilirubinemia (A), 950
factors influencing evapn. from sample cups; their effect on anal. error, 1907
fluorometric detn. of "albumin-titratable bilirubin" in the jaundiced neonate, 1638
lecithin:sphingomyelin ratio in amniotic fluid, as assessed by a modified thin-layer chromatographic method (commercial pre-coated plate) (SN), 260
neonatal hypocalcaemia and its relationship to vitamin D and mineral metabolism in pregnancy (A), 951
plasma theophylline concns. measured by high-pressure liquid chromatography, 1774
rapid anal. for theophylline in serum by use of high-pressure cation-exchange chromatog. 834
relationship of fetal insulin to maternal blood glucose (A), 957
single-channel AutoAnalyzer adapted for multiple tests without manifold changes, 1567
solid-phase RIA of thyroxine in untreated serum, 1406
ultramicroscale detn. of clin. chem. values for blood during the first four days of postnatal life, 746
use of the carbon rod atomizer for anal. of lead in blood: three methods compared (SN), 1986
what serum enzymes should be measured in pediatric patients? (L), 1040
- Pentose cycle**
enzyme activities of NADPH-forming metabolic pathways in normal and leukemic leukocytes, 880
pentose cycle in leukocytes (L), 1180
- Pepsin**
detn. of trypsin and pepsin activity in physiol. fluids by microcalorimetry (A), 1018
- Performance**
See Variation, source of
- pH**
use of carbon dioxide- and oxygen-tonometered phosphate:bicarbonate:chloride:glycerol:water mixtures for calibration and control of pH, pCO_2 , and pO_2 electrode systems, 685
- Phenobarbital**
enzymatic immunoassay vs. gas-liquid chromatog. for detn. of phenobarbital and diphenylhydantoin in serum, 1766
- Phenylalanine**
gas-liquid chromatog. of phenylalanine and its metabolites in serum and urine of various hyperphenylalaninemic subjects, their relatives, and controls, 735
- Phenylketonuria**
effect of phenylketonuria on oxalate synthesis (A), 1026
gas-liquid chromatog. of phenylalanine and its metabolites in serum and urine of various hyperphenylalaninemic subjects, their relatives, and controls, 735
- Phosphate**
detn. of inorganic phosphorus using a discrete analyzer, the Vickers M-300 (A), 960
improved method for measurement of inorganic phosphate in serum with a centrifugal fast analyzer (A), 961
- Phosphodiesterase**
detn. of phosphodiesterase I acty. in serum, 1383
- Phospholipase**
Phospholipase in post-heparin plasma (A), 1029
- Phospholipidosis**
pathogenesis of drug-induced phospholipidosis (A), 959
- Phospholipids**
assessment of phospholipid measurement in amniotic fluid, 1441
mo'n. of Fiske-SubbaRow method for total phospholipid in serum, 1454
- Phosphorescence spectrometry**
potential of phosphorescence spectrometry in clin. chem.—new instrumentation and methods (R), 285
- Picrotrace analysis**
potential for clin. use of anal. laser microprobe for element measurement, 1238
- PKU**
See Phenylketonuria
- Placental lactogen**
detn. of total estrogens and human placental lactogen in plasma of pregnant women by enzyme-immunoassay (A), 1009
radial immunodiffusion method for detn. of

- HPL as a test of placental function (A), 1010
- three lab. tests as a guide to normal placental function (A), 1010
- Plasmin**
method for plasmin and plasminogen acty. in plasma, 1632
- Plasminogen**
method for plasmin and plasminogen acty. in plasma, 1632
- Poland, clin. chem. in**
report system in lab. diagnostics in Poland (A), 978
- Pollution control**
pollution control and suggested disposal guidelines for clin. chem. labs. (SR), 1839
- Polyamines**
more sensitive automated detection of polyamines in physiological fluids and tissue extracts with *o*-phthalaldehyde, 172.
relative usefulness of measuring polyamines in serum, plasma, and urine as biochem. markers of cancer, 860
- Polycythemia**
patterns of red cell enzymes in various polycythemia (A), 983
- Porphyria**
uroporphyrinogen-decarboxylase activity in the diagnosis of acute intermittent porphyria (A), 981
zinc protoporphyrin: simple, sensitive, fluorometric screening test for lead poisoning, 93
- Porphyrin**
difference in extractability of porphyrins from blood of anemic persons (L), 1850
- Potassium**
detr. of Na⁺ and K⁺ in urine with ion-selective electrodes in an automated analyzer, 1572
- Pregnancy**
serum lipoproteins and lipids of familial hyper-, hypo-, or normo- β -lipoproteinemic subjects during pregnancy (A), 990
- Procainamide**
fluorometric or gas-liquid chromatographic detr. of procainamide? (L), 1180
- Prolactin**
modified human prolactin RIA resulting in improved reproducibility (A), 992
- Propionyl CoA carboxylase**
propionyl CoA carboxylase detr.: study of enzyme parameters in deficiency and control cultured skin fibroblasts (A), 1020
- Propionylthiocholinesterase**
criticism of a Selected Method: propionylthiocholinesterase (L), 1041
- Prostaglandins**
prostaglandins in clin. med.: developing role for the clin. chemist (R), 653
- Protease**
isolation of a new sulfhydryl-dependent protease from bovine spleen and rat tissues (A), 1019
- Proteins**
automated (aip) quantitative detr. of total proteins in CSF and urines (A), 944
automated elution electrophoresis: a potential clin. tool, 1217
automated immunochem. method for detr. of urinary protein of plasma origin, 1465
detr. of urinary total protein by use of gel filtration and a modified biuret method (SM), 778
direct RIA of cortisol in serum by enzymatic denaturation of serum binding proteins (A), 1023
evaln. of kinetic light scattering as an approach to measurement of specific proteins with the centrifugal analyzer. I. Methodology, 1731
evaln. of kinetic light scattering as an approach to measurement of specific proteins with the centrifugal analyzer. II. Theoretical considerations, 1735
functional state of the total nephron mass studied by differential protein clearances (A), 1020
further identification of phosphorylated nonhistone chromatin proteins induced by aldosterone (A), 986
"hybrid" immunoelectropherograms as "fingerprints" of some pathologic conditions (A), 983
immunochem. protein profile anal. on a GEMSAEC centrifugal analyzer with EDP-assisted patient-file print-out (A), 1021
improved biuret procedure for routine detr. of urinary total proteins in clin. proteinuria, 398
in vitro interactions of surfactant lipids with alveolar proteins (A), 1035
- nuclear acidic proteins from rat ventral prostate cells undergoing hypertrophy or hyperplasia (A), 987
protein clearance in chronic nephropathies (A), 1020
protein profiles in the rheumatic diseases (A), 1021
screening for albuminuria: A case for estn. of albumin in urine, 1795
serum proteins in premature and newborn infants (A), 950
specific protein assays in protein-calorie malnutrition (A), 1020
standards for total serum protein assays—a collaborative study, 1159
- Prothrombin**
kinetic detr. of prothrombin (A), 998
- Protoporphyrin**
erythrocyte protoporphyrin in detection of Fe deficiency, 1121
- Protoporphyrin IX**
micro-scale photofluorometric detr. of "free erythrocyte porphyrin" (protoporphyrin IX) (SM), 1669
- Purine metabolism**
regulation of purine metabolism in man (A), 926
- Pyrophosphate**
increased inorg. pyrophosphate in serum and urine of patients with osteogenesis imperfecta, 104
- Pyruvate kinase**
similarity between human placental pyruvate kinase and pyruvate kinase in serum of patients with carcinoma of lung and stomach (A), 956
- Quality control**
comparison of control sera containing enzymes of human and animal origin (A), 963
computer program system for real-time quality-control in clin. chem. laboratories with on-line connection to a process computer (A), 962
critical evaln. of the effectiveness of commercial quality control/data analysis programs for clin. chem. (A), 962
estn. of std. deviations for quant. methods in clin. chem. (A), 953
ethylene glycol treated serum for standardizing the Technicon AutoAnalyzer (A), 962
evaln. of discrepancies in patients' results—an aspect of computer-assisted quality control, 87
example of lyophilized protein-based materials not simulating patient sera (SN), 1812
impact of laboratory error on the normal range: a Bayesian model, 321
optimization and interpretation of Trigg's technique for trend anal. in control data, 1396
patients as their own controls: use of the computer to identify lab. error, 1648
prepn. and use of human serum control materials for monitoring precision in clin. chem. (SM), 1830
prepn. of a stable enzyme calibrator for clin. enzyme anal. (A), 963
properties and limitations of quality control materials (A), 963
quality assurance in health care: missions, goals, activities (O), 1357
quality control by means of quality control serum value: absorbance standard graph (A), 962
rapid evaln. of quality control charts with nonparametric statistical tests (A), 962
use of carbon dioxide- and oxygen-tonometered phosphate:bicarbonate:chloride:glycerol:water mixtures for calibration and control of pH, pCO₂, and pO₂ electrode systems, 685
use of the Ref. Method for detr. serum Ca in a quality-assurance survey, 1416
- Radial immunodiffusion**
comparison of serum immunoglobulin values obtained using several commercially available radial immunodiffusion methods (A), 943
detr. of normal serum immunoglobulins by radial diffusion (A), 943
- Radioassay**
comparison of clin. assays for serum corticosteroids, 387
comparison of mathematical transformations and approximations of radioassay dose-response curves (A), 993
comparison of results for morphine urinary analyses by RIA and thin-layer chromatog. in a narcotic clinic setting (SN), 417
detr. of diphenhydantoin in human serum by spin immunoassay, 221
detr. of serum thyroxine after dissociation from thyroxine-binding globulin in alkaline solution and adsorption on dextran-coated charcoal, 216
effect of albumin on serum digoxin RIA, 402
effects on RIA of digoxin of varying incubation and adsorption periods, 227
preliminary evaln. of a latex agglutination-inhibition tube test for morphine, 139
relative efficacy of sepn. of "free" and "bound" [³H]-[⁵-³H]pteroylglutamate by charcoal coated with various materials, 1927
RIA of digoxin—interference by digitoxin (SN), 156
RIA of drugs subject to abuse: critical evaln. of urinary morphine-barbiturate, morphine, barbiturate, and amphetamine assays, 81
routine RIA of plasma testosterone, and results for various endocrine disorders, 206
solid-phase RIA on polystyrene beads and application to dopamine- β -hydroxylase (SN), 148
standardizing ¹²⁵I sources and determining ¹²⁵I counting efficiencies of well-type gamma counting systems, 370
- Radioimmunoassay**
See also specific analyte of interest
advantages of a present count procedure for optimized radio-ligand assays (A), 993
comparison of commercial kits for RIA: III. radioassay of serum folate, 1922
comparison of five RIAs and enzyme bioassay for measurement of digoxin in blood, 857
computer-controlled automation of RIA based on gel entrapment of antibody, 829
direct RIA for unconjugated estril in pregnancy serum, with use of a radioiodinated derivative of estril (SN), 1805
disadvantages of the sequential satn. method (L), 2002
identity of mfgs. in paper (L), 1546
improved RIA of plasma cortisol, 770
modn. of a commercially available digoxin RIA kit for higher precision (SN), 1172
negligible interference by spirinolactone and prednisone in digoxin RIA (SN), 1801
nonchromatog. RIA of plasma 11-deoxycortisol, for use in the metyrapone test, with polyethylene glycol as the precipitant, 719
parallel RIA for plasma cortisol and 11-deoxycortisol, 1644
practical applications of RIA theory: simple procedure yielding linear calibration curves, 1113
principles and problems of RIAs (A), 934
quantn. of free, total, and antibody-bound insulin in insulin-treated diabetics, 873
Radioimmunoassay compared with thin-layer chromatog. and gas-liquid chromatog. methods of barbiturate detection in human urine, 672
radioimmunoassay of digoxin: effect of albumin (L), 636
radioimmunoassay of plasma testosterone, with use of polyethylene glycol to separate antibody-bound and free hormone, 708
RIA of digoxin and digitoxin (SM), 1815
RIA of digoxin: bioconversion of interference? (L), 1039
RIA of methaqualone and its monohydroxy metabolites in urine, 1878
simple, fast and sensitive microtechnique for RIAs (A), 967
standardization of incubation time and temp. for eight RIAs (SN), 1169
- Reference materials**
prepn. of a stable, freeze-dried bilirubin std. (A), 1001
use of a serum-based enzyme ref. material in calibration of clin. enzyme methods (A), 1034
- Reference methods**
a ref. method for glucose (A), 933
development of a uric acid ref. method (A), 1014
practical applications of ref. method technol. (A), 933
rationale for ref. methods (A), 932
ref. method for creatinine (A), 933
selection of "recommended methods" for use in a clin. lab.—some urgent considerations and a suggested approach (E), 1057
the IFCC and ref. methods (A), 932
use of the Ref. Method for detr. serum Ca in a quality-assurance survey, 1416
validation of a simplification of proposed national ref. method for glucose by comparison with oxygen rate methods (A), 1037
worldwide ref. methods (L), 1344

Reference thermometry
reference thermometry (L), 638

Reference values

See also Normal values

automated immunochem. method for detn. of urinary protein of plasma origin, 1465
centrifugal analyzer detn. of ascorbate in serum or urine with Fe^{3+} -ferrozine, 1493
colorimetric measurement of ornithine carbamoyl transferase acty. in plasma; results for a supposedly healthy popn. 1716
colorimetry of serum cholesterol with use of ferric acetate:uranyl acetate and ferrous sulfate:sulfuric acid reagents (SM), 1526
detn. of phosphodiesterase I acty. in serum, 1383
estimation of hemoglobin A₂ without chromatog. or electrophoresis, 1490
evaln. of Trinder's glucose oxidase method for measuring glucose in serum and urine, 1754
fluorometric method for measuring serum lipase acty. 1788
influence of age, sex, and oral contraceptives on blood cholinesterase acty. 1393
liquid-chromatog. anal. for neutral carbohydrates in serum glycoproteins, 1314
manual and semi-automated procedures for triglycerides in serum, 1575
method for plasmin and plasminogen acty. in plasma, 1632
optimum kinetic enzymatic procedures for glucose and triglycerides in plasma and serum, 1448
photometric copper-soap method for rapid assay of serum lipase acty. 1469
quant. method for estimating fecal amino acids, 1437
reaction-rate assay of serum sorbitol dehydrogenase acty. at 37 °C, 1619
some theory of reference values. I. stratified (categorized) normal ranges and a method for following an individual's clin. lab. values, 1457

Renal disease

See also Kidney disease

urinary beta-glucuronidase activity in renal disease (A), 955

Renin

improved measurement of plasma renin acty. and concn. (L), 1344
inhibition of renin by alpha-1-antitrypsin (A), 985
measurement of plasma renin activity (L), 447
plasma renin, angiotensin II and plasma and urine aldosterone in an intense running exercise (A), 985
practical applications of RIA theory: simple procedure yielding linear calibration curves, 1113

Retinoic acid

mass fragmentography of retinoic acid: a sensitive and specific detn. of vitamin A acid in biol. samples (A), 1031

Reverse transcriptase

microanal. system for detn. of picogram quantities of metals in metalloenzymes, as illustrated with Zn-containing enzymes, 591
reverse transcriptase of human glioblastoma and viral murine tumor cells in culture (A), 1032

Reviewers

invited reviewers—1975, 2019

Rheumatic disease

protein profiles in the rheumatic diseases (A), 1021

Rheumatoid factor

application of differential light scattering to the latex agglutination assay for rheumatoid factor, 1234

Riboflavin

glutathione reductase acty. measurements by an automated procedure: assessment of riboflavin status in man (A), 982

Ribonuclease

plasma ribonuclease acty. in hypoalbuminaemia (A), 956
serum ribonuclease acty. in multiple myeloma (L), 1345

RNA polymerases

cyclic nucleotide binding proteins, protein kinases and DNA-dependent RNA polymerases in rat mammary gland nuclear extracts (A), 987

RNA synthesis

properties of transcriptionally active ("euchromatin") and less active ("heterochromatin") rat ventral prostate chromatin (A), 1026

Salicylic acid

improved colorimetric detn. of salicylic acid and its metabolites in urine (SN), 1167

Sample preparation

integral serum separation device to obtain

serum specimens suitable for clin. anal. (A), 971

Schistosomiasis

biochem. of CSF of schistosomal patients with neurological disorders (A), 1026

Scoliosis

glycosaminoglycan content of human cartilage in idiopathic scoliosis (A), 1027

Screening

See also Toxicology

automated differentiation and measurement of hexosaminidase isoenzymes in biol. fluids and application to pre- and postnatal detection of Tay-Sachs disease, 334
automated extraction and simultaneous detn. of serum cholesterol and triglycerides, 1430
chemical basis and specificity of chem. screening tests for urinary vanilmandelic acid, 130
comparison of electrophoresis on citrate agar, cellulose acetate, or starch for Hb identn. 1072
detection of benzoyl ecgonine (metabolite of cocaine) in urine drug abuse screening by thin-layer chromatography (A), 945
drug screening by enzymatic immunoassay with the centrifugal analyzer, 186
electronic timing of a high-speed immunonephelometric continuous-flow system, 762
erythrocyte protoporphyrin in detection of Fe deficiency, 1121
evaln. of discrepancies in patients' results—an aspect of computer-assisted quality control, 87
fluorometric detn. of δ -aminolevulinic acid dehydratase acty. in human erythrocytes as index to lead exposure, 1783
hospital admission multiphasic screening (A), 954
increased inorg. pyrophosphate in serum and urine of patients with osteogenesis imperfecta, 104
micro-scale blood Pb detns. in screening: evaln. of factors affecting results, 533
Radioimmunoassay compared with thin-layer chromatog. and gas-liquid chromatog. methods of barbiturate detection in human urine, 672
rapid serum drug profile; evaln. and experience (A), 972
screening for albuminuria: A case for estn. of albumin in urine, 1795
screening for drug abuse: Use of NaCl to increase drug recovery from papers coated with ion-exchange resin (SN), 1803
screening method for barbiturates in urine, 1609
serum and erythrocyte argininosuccinate lyase assay by NADH fluorescence generated from formed fumarate, 230
sex-related patterns in urinary amino acids, 1970
simultaneous detection of morphine and barbiturates in urine by RIA, 1378
thin-layer chromatography and enzyme immunoassay of L-alpha-acetyl methadol and methadone metabolites in urine, 109
use of a charcoal cartridge in isolating basic drugs from urine (L), 1852
zinc protoporphyrin: simple, sensitive, fluorometric screening test for lead poisoning, 93

Selected methods

colorimetry of serum cholesterol with use of ferric acetate:uranyl acetate and ferrous sulfate:sulfuric acid reagents (SM), 1526
detn. of urinary total protein by use of gel filtration and a modified biuret method (SM), 778
manual colorimetry of triglycerides in serum (SM), 437
micro-scale photofluorometric detn. of "free erythrocyte porphyrin" (protoporphyrin IX) (SM), 1669
prepn. and use of human serum control materials for monitoring precision in clin. chem. (SM), 1830
RIA of digoxin and digitoxin (SM), 1815
total alk. phosphatase acty. in human serum (SM), 1988
transketolase activity of blood hemolysate, a useful index for diagnosing thiamine deficiency (SM), 432

Sensitivity

specifying sensitivity (L), 1542

Serotonin

effect of cannabis intoxication on serotonin metab. (A), 972

SGOT

See Aspartate aminotransferase

Sialic acid

automated method for detn. of bound N-acetylneuraminic acid in serum (SN), 412

Sickle cell anemia

comparison of electrophoresis on citrate agar, cellulose acetate, or starch for Hb identn. 1072

continuous detn. of oxygen dissociation curve for whole blood, 1747

Sickle cell disease

zinc deficiency in sickle cell disease, 582

Simultaneous multicomponent analyses

applications of vidicon spectrometer to anal. problems in clin. chem. 1192

SI units

implementation of new quantity names and SI units (A), 976

SMA 12/60

See Continuous-flow analysis

Sodium

detn. of Na⁺ and K⁺ in urine with ion-selective electrodes in an automated analyzer, 1572

Sorbitol dehydrogenase

clinical signif. of sorbitol dehydrogenase (A), 956
reaction-rate assay of serum sorbitol dehydrogenase acty. at 37 °C, 1619

Specimen collection

specimen collection and stability in trace-elements anal. of body fluids, 595

Spectrophotometry

aqueous system for direct measurement of temperature of liquids in thermostatted spectrophotometric cells (A), 971
comparison of clin. assays for serum corticosteroids, 387
direct detn. of total serum cholesterol by double-wavelength spectrophotometry, 703
dye solution for certifying wavelength accuracy and linearity of detector response of spectrophotometers (A), 1001
improved biuret procedure for routine detn. of urinary total proteins in clin. proteinuria, 398
measurement of spectral bandwidth, as exemplified with the Beckman "Enzyme Analyzer System TR Spectrophotometer", 1582
sources of errors and artifacts in spectrophotometric measurements, 776

Sphingolipids

above-normal urinary excretion of ceramides in Farber's disease, and characterization of their components by high-performance liquid chromatog. 725

Spin immunoassay

detn. of diphenylhydantoin in human serum by spin immunoassay, 221

Standards

See also Quality control

Statistics

accurate estimation of SD's for quant. methods in clin. chem. 1935
application of discriminant function anal. and computer-assisted statistical classification procedures to diagnosis of hepatobiliary disease from liver function test results (A), 977
correln. of selected serum constituents: 1. inter-individual variation and anal. error, 1592
current concepts of "normal values," "reference values" and "discrimination values" in clin. chem. (E), 1873
diagnostic usefulness of liver-function tests in biopsy-proven liver disease evaluated by discriminant anal. and interaction effects anal. (A), 977
diagnostic value of routine liver tests, 71
estn. of std. deviations for quant. methods in clin. chem. (A), 953
impact of laboratory error on the normal range: a Bayesian model, 321
modifying regression to work on real data: applications to calibration and method comparison (A), 953
multivariate statistical anal. on 24 serum constituents classified by sex and age (A), 978
nonparametric statistical tests for quick evaln. of clin. data (E), 309
optimization and interpretation of Trigg's technique for trend anal. in control data, 1396
sex-related patterns in urinary amino acids, 1970
some theory of reference values. I. stratified (categorized) normal ranges and a method for following an individual's clin. lab. values, 1457
statistical approaches for the improved use of clin. chem. data (A), 921

- statistical evaln. of method-comparison data, 315
- Steroids**
See also specific steroid of interest
cellular events relating to the action of steroid hormones (A), 923
comparison of clin. assays for serum corticosteroids, 387
detrn. of steroid hormones by spinimmune technique: testosterone as a model compound (A), 1024
mechanisms of action of sex steroids (A), 924
new method for the detrn. of 17-hydroxycorticosteroids (Porter-Silber chromogens) in urine—removal of endogenous β -glucuronidase inhibitors and contaminants induced by drug medication (A), 1023
polarographic investigation of the Zimmermann reaction mechanism (A), 1023
RIA of aldosterone and other corticoids by means of nylon-bound antibodies (A), 1022
- Subacute myelo-optic-neuropathy**
chem. approach to subacute myelo-optic-neuropathy (A), 1027
- Sugars**
sepn. of synthetic mixtures of sugars and of sugars in body fluids, 1882
- Sulphydryl disulfide interchange enzyme**
microsomal sulphydryl α sulfide interchange enzyme in regeneratⁿg cutaneous tissue (A), 1019
- Surgery**
serum immunoglobulins after surgery, 667
- Symposium, adv. anal. concepts**
Seventh Ann. Symp., Oak Ridge (E), 1191
- Synovitis**
biochem. response in rabbit hip articular cartilage to induced synovitis (A), 1033
- T₄**
See Thyroxine; triiodothyronine
- Tay-Sachs disease**
automated differentiation and measurement of hexosaminidase isoenzymes in biol. fluids and application to pre- and postnatal detection of Tay-Sachs disease, 334
kinetic detrn. of hexosaminidase for Tay-Sachs heterozygote screening (A), 1013
urinary hexosaminidase anal. for identr. of Tay-Sachs genotypes (A), 1013
- Testosterone**
practical applications of RIA theory: simple procedure yielding linear calibration curves, 1113
radioimmunoassay of plasma testosterone, with use of polyethylene glycol to separate antibody-bound and free hormone, 708
RIA of testosterone with antisera raised against testosterone-3-BSA and testosterone-7-BSA (A), 1036
routine RIA of plasma testosterone, and results for various endocrine disorders, 206
- Tetronic and deoxytetronic acids**
gas-chromatog. mass-spectrometric identr. and quantn. of tetronic and deoxytetronic acids in urine from normal adults and neonates, 1892
- Theophylline**
faster gas-chromatog. procedure for theophylline (L), 1038
gas-chromatographic detrn. of theophylline in human serum and saliva, 144
plasma theophylline concns. measured by high-pressure liquid chromatography, 1774
rapid anal. for theophylline in serum by use of high-pressure cation-exchange chromatog. 834
ultraviolet spectrophotometry of theophylline in plasma in presence of barbiturates (SN), 1518
UV spectrophotometric method for detrn. theophylline in serum (A), 1037
- Thermochemistry**
thermochemical detrns. of glucose in serum, plasma, and whole blood without prior deproteinization, 741
- Thiamine deficiency**
transketolase activity of blood hemolysate, a useful index for diagnosing thiamine deficiency (SM), 432
- Thioridazine**
pharmacokinetics of human thioridazine metabolism (A), 1033
- Thymidine**
effect of Zn deficiency and repletion on thymidine metab. 544
- Thyroid disease**
assay of L-tyrosine in serum by amperometry of tyrosinase-catalyzed oxygen consumption, 325
examn. of some factors affecting sensitivity and reproducibility in RIA of thyrotropin, 347
- solid-phase RIA of thyroxine in untreated serum, 1406
- Thyroid hormone**
mechanisms of thyroid hormone action (A), 923
- Thyroid status**
See also Thyroxine, Triiodothyronine, Hypothyroidism, etc.
plasma androsterone sulfate in relation to thyroid status (A), 951
the value of thyroid profiling (A), 952
thyroid function tests in a hospital population (A), 951
thyroid-function tests in diphenylhydantoin-treated patients, 1388
use of dual-label RIA tests to measure serum T-3, T-4 and TSH (A), 1012
- Thyroid stimulating hormone**
shortened RIA for human thyroid stimulating hormone (A), 1036
- Thyrotropin**
examn. of some factors affecting sensitivity and reproducibility in RIA of thyrotropin, 347
- Thyroxine**
adaptation of a T₃-uptake test and of RIAs for serum digoxin, thyroxine, and triiodothyronine to an automated RIA system—"Centria", 1305
antibodies coupled to the inside of plastic test-tubes and their use in RIA for serum thyroxine (A), 1011
appraisal of the effective thyroxine ratio: comparison with serum free thyroxine concn. (A), 1012
comparison between serum and alcohol-base standards for the detrn. of total thyroxine (A), 1011
detrn. of serum thyroxine after disocn. from thyroxine-binding globulin in alkaline solution and adsorption on dextran-coated charcoal, 216
estn. of unbound TBG (T₃*-uptake) by separation of free from bound T₃* with precipitation techniques (A), 951
evaln. of a thyroxine RIA kit (A), 1010
experiences with a double antibody RIA method for T-4 using locally produced antibodies (A), 1011
homogeneous enzyme immunoassay for thyroxine (A), 1011
linear standard curves for saturation anal. of 25-OH-vitamin D, vitamin B12, cyclic AMP, T₄ and T₃ (A), 993
new normalized serum thyroxine assay that does not require a serum add-back step (A), 1011
serum thyroxine RIA: comparison with competitive protein binding assay (A), 1010
solid-phase RIA of thyroxine in untreated serum, 1406
use of dual-label RIA tests to measure serum T-3, T-4 and TSH (A), 1012
- Total iron-binding capacity**
See also Iron
immunological measurement of transferrin compared with chem. measurement of total iron-binding capacity, 1063
- Toxicology**
See also Drug assay, Trace elements, Screening
alcohol anal. in biol. liquids by solid-state headspace sensing (A), 973
application of electron spin resonance to detrn. of serum drug concns. 1323
biochem. variations induced by long-term drug intake: example of psychotic drugs (A), 1008
clin. applications of gas chromatograph: mass spectrometer-computer systems, 1282
comparison of results for morphine urinalyses by RIA and thin-layer chromatog. in a narcotic clinic setting (SN), 417
detection of benzoyl ecgonine (metabolite of cocaine) in urine drug abuse screening by thin-layer chromatography (A), 945
detrn. of diphenylhydantoin in human serum by spin immunoassay, 221
detrn. of iproclazide in urine by gas-liquid chromatography (A), 946
drug screening by enzymatic immunoassay with the centrifugal analyzer, 186
effect of albumin on serum digoxin RIA, 402
effects on RIA of digoxin of varying incubation and adsorption periods, 227
fluorometric detrn. of δ -aminolaevulinic dehydratase acty. in human erythrocytes as index to lead exposure, 1783
gas-chromatographic determination of undervatized theophylline in whole blood (A), 945
gas-chromatographic detrn. of theophylline in human serum and saliva, 144
- gas-chromatographic measurement of cocaine in plasma using a nitrogen detector (A), 946
intercomparison program of Pb, Hg, and Cd anal. in blood, urine, and aq. solns. 551
micromethod for Pb detrn. in whole blood by at. absorption, with use of the graphite furnace, 558
organic nitrogen-selective detector used in gas-chromatographic detrn. of anticonvulsant and barbiturate drugs in plasma and tissues, 98
preliminary evaln. of a latex agglutination-inhibition tube test for morphine, 139
Radioimmunoassay compared with thin-layer chromatog. and gas-liquid chromatog. methods of barbiturate detection in human urine, 672
rapid anal. for theophylline in serum by use of high-pressure cation-exchange chromatog. 834
rapid serum drug profile; evaln. and experience (A), 972
rate of decrease in serum ethchlorvynol concns. after extreme overdosage: a case study (SN), 894
RIA of digoxin—interference by digitoxin (SN), 156
RIA of drugs subject to abuse: critical evaln. of urinary morphine-barbiturate, morphine, barbiturate, and amphetamine assays, 81
scope of mass spectrometry in clin. chem. (R), 803
screening for drug abuse: Use of NaCl to increase drug recovery from papers coated with ion-exchange resin (SN), 1803
screening method for barbiturates in urine, 1609
simple, rapid mini-TLC method for detection of barbiturates and common sedatives in physiol. fluids in therapeutic and overdose situations (A), 945
simultaneous detection of morphine and barbiturates in urine by RIA, 1378
tactics for studies of adult drug abuse (A), 973
technique for detg. Ni in blood by flameless at. absorption spectrophotometry, 562
therapeutic, toxic concns. of toxicologically significant drugs in blood, plasma, or serum (R), 44
thin-layer chromatographic detection and identr. of methaqualone metabolites in urine, 76
thin-layer chromatography and enzyme immunoassay of L-alpha-acetyl methadol and methadone metabolites in urine, 109
ultramicro anal. for Cu, Cd, and Zn in human liver tissue by use of at. absorption spectrophotometry and the heated graphite tube atomizer, 537
ultraviolet spectrophotometry of theophylline in plasma in presence of barbiturates (SN), 1518
zinc protoporphyrin: simple, sensitive, fluorometric screening test for lead poisoning, 93
- Trace elements**
burgeoning branch of clin. anal. (E), 467
detrn. of serum Cu by at. absorption, with use of the graphite cuvet, 619
effect of diphenylhydantoin on serum Cu, Zn, and Mg (L), 637
effect of matrix of std. on results of at. absorption spectrophotometry of Zn in serum, 588
effect of Zn deficiency and repletion on thymidine metab. 544
effects of D-penicillamine on hematolog. and biochem. of blood of Pb- or Cu-intoxicated rabbits (A), 998
influence of myocardial infarction on serum Mn, Cu, and Zn concns. 578
intercomparison program of Pb, Hg, and Cd anal. in blood, urine, and aq. solns. 551
microanal. system for detrn. of picogram quantities of metals in metalloenzymes, as illustrated with Zn-containing enzymes, 591
micromethod for Pb detrn. in whole blood by at. absorption, with use of the graphite furnace, 558
micro-scale blood Pb detrns. in screening: evaln. of factors affecting results, 533
newer aspects of roles of Zn, Mn, and Cu in human nutrition (R), 501
potential for clin. use of anal. laser microprobe for element measurement, 1238
serum and tissue enzyme activity and trace-element content in response to Zn deficiency in the pig, 568
serum chromium, serum lipids, other risk factors and angiographically determined coronary artery disease (A), 953

- serum Zn, Fe, and Cu concns. during typhoid fever in man: effect of chloramphenicol therapy, 528
- specimen collection and stability in trace-elements anal. of body fluids, 595
- stability of Ca, Cu, Zn, and Hg in urine (A), 962
- technique for detg. Ni in blood by flameless at. absorption spectrophotometry, 562
- trace-element nutrition in health and disease: contributions and problems of anal. (E), 468
- trace elements: a selective survey (R), 476
- trace elements in hair, as related to exposure in metropolitan New York, 603
- ultramicro anal. for Cu, Cd, and Zn in human liver tissue by use of at. absorption spectrophotometry and the heated graphite tube atomizer, 537
- use of the carbon rod atomizer for anal. of lead in blood: three methods compared (SN), 1986
- zinc deficiency in sickle cell disease, 582
- zinc protoporphyrin: simple, sensitive, fluorometric screening test for lead poisoning, 93
- Trace metals**
distribution of metal ions among serum proteins in vivo (A), 995
- Trace-molecule analysis**
potential of phosphorescence spectrometry in clin. chem.—new instrumentation and methods (R), 285
- Training**
conf. for directors of clin. chem. training programs, 1352
- Transferrin**
immunological measurement of transferrin compared with chem. measurement of total iron-binding capacity, 1063
- Transketolase**
transketolase activity of blood hemolysate, a useful index for diagnosing thiamine deficiency (SM), 432
- Trauma**
serum immunoglobulins after surgery, 667
- Tricarboxylic acid cycle**
citrate synthesis by lymphocytes, 825
- Triglyceridase**
isolation of triglyceridase without phenyl laurate splitting activity from porcine pancreas (A), 949
- Triglycerides**
application of an enzymatic triglyceride procedure with on-line saponification to the Technicon AutoAnalyzer II (A), 943
- automated enzymatic triglycerides by Gilford 3400 Enzyme Analyzer (A), 943
- automated extraction and simultaneous detn. of serum cholesterol and triglycerides, 1430
- comparison of "primary" and "secondary" calibration of triglyceride procedures (A), 971
- enzymatic assay of serum triglyceride and lecithin (A), 971
- enzymatic detn. of cholesterol and triglyceride on a centrifugal fast analyzer (A), 941
- enzymatic procedure for serum triglycerides (SN), 1983
- fully enzymatic triglyceride detn. in serum—a single channel method for the AA II- and SMA-AutoAnalyzer (A), 942
- improved method for enzymatic detn. of serum triglycerides, 1627
- lipase-triggered kinetic assay of serum triglycerides (SN), 424
- manual and semi-automated procedures for triglycerides in serum, 1575
- manual colorimetry of triglycerides in serum (SM), 437
- mechanized enzymatic detn. of triglycerides in serum (SN), 420
- optimum kinetic enzymatic procedures for glucose and triglycerides in plasma and serum, 1448
- simple manual procedure for detn. of serum triglycerides, 768
- simultaneous detn. of serum cholesterol and triglycerides after prelim. column chromatog. (SN), 428
- Triiodothyronine**
adaptation of a T₃-uptake test and of RIAs for serum digoxin, thyroxine, and triiodothyronine to an automated RIA system—"Centria", 1305
- limitations of a T₃ radioimmunoassay kit (A), 1012
- linear standard curves for saturation anal. of 25-OH-vitamin D, vitamin B₁₂, cyclic AMP, T₄ and T₃ (A), 993
- network anal. of six T₃ RIA procedures (A), 1012
- Trypanosomiasis**
enzymatic detns. in patients with trypanosomiasis americana (Chaga's disease) (A), 956
- Trypsin**
alpha₁-anti-trypsin studies in the neonate (A), 949
- automated detn. of trypsin in duodenal fluid (A), 959
- detn. of trypsin and pepsin activity in physiol. fluids by microcolorimetry (A), 1018
- RIA for human trypsin in plasma (A), 992
- Tryptophan**
spectrofluorometric assay for plasma tryptophan (A), 1003
- variations in metabolism of tryptophan in 50 cases of carcinoid tumours (A), 1024
- Tuberculosis**
contribution to immunodiagnosis of active tuberculosis (A), 983
- radioimmunoassay for isoniazid, 1059
- Turbidimetry**
application of differential light scattering to the latex agglutination assay for rheumatoid factor, 1234
- Typhoid fever**
serum Zn, Fe, and Cu concns. during typhoid fever in man: effect of chloramphenicol therapy, 528
- Tyrosine**
assay of L-tyrosine in serum by amperometry of tyrosinase-catalyzed oxygen consumption, 325
- Urea**
colorimetric reaction for end-point, continuous-flow, and kinetic measurement of urea, 1136
- enzymatic detn. of serum urea on silicone-rubber pads, 67
- nonenzymatic kinetic method for urea anal. on the centrifugal fast analyzer (A), 964
- Urea nitrogen**
more sensitive mechanized detn. of urea nitrogen (L), 1540
- Uremia**
gas-liquid chromatog. measurement of guanidino acids, 838
- identn. of some abnormal metabolites in plasma from uremic subjects, 1329
- Uric acid**
age-sex specific ref. values for serum uric acid in a representative human popn. (A), 1008
- application of the centrifugal fast analyzer for blank correction: new methods for measurement of total and direct bilirubin and uric acid (A), 964
- colorimetric, enzymatic, and liquid-chromatog. methods for serum uric acid compared, 1427
- detn. of uric acid by high performance liquid chromatog. using electrochem. detection (A), 1015
- development of a uric acid ref. method (A), 1014
- hyperuricemia and uric acid detn. by the uricase and phosphotungstate methods (A), 1015
- immobilized enzyme uric acid method (A), 1015
- simplified automated method for detn. of urinary or serum uric acid, based on redn. of ferric-phenanthroline complex, 125
- toward a "definitive" assay for urate in serum—gas chromatog. and characterization of tetraethyl derivatives of uric acid (A), 1015
- updating continuous-flow uric acid methodology (L), 641
- Urinary acids**
gas-chromatographic method for measuring urinary excretion of aromatic and indolyl acids (A), 1025
- Urine**
gas-chromatog. mass-spectrometric identn. and quantn. of tetrone and deoxytetrone acids in urine from normal adults and neonates, 1892
- Urine color**
use of Munsell Color Chart to describe urine color (L), 639
- Urine, enzymes in**
enzyme patterns in urine (A), 955
- Urine, protein in**
detn. of urinary total protein by use of gel filtration and a modified biuret method (SM), 778
- Urocanase**
biochem. studies on a genetic defect in histidine metabolism, absence of liver urocanase (A), 1012
- Uroporphyrin**
fluorometric detn. of δ -aminolaevulinic dehydratase acty. in human erythrocytes as index to lead exposure, 1783
- Uroporphyrinogen-l-synthetase**
uroporphyrinogen-l-synthetase activity in the diagnosis of acute intermittent porphyria (A), 981
- Vanilmandelic acid**
chemical basis and specificity of chem. screening tests for urinary vanilmandelic acid, 130
- Variation, source of**
aspartate aminotransferase and alanine aminotransferase activities in plasma: statis. distributions, indiv. variations, and ref. values, 1077
- CAP evaluation of the Beckman TR Enzyme Analyzer (A), 1033
- correln. of selected serum constituents: 1. inter-individual variation and anal. error, 1592
- dietary-induced liver ailment and drug metabolism (A), 960
- effect of hard vs soft glass blood-drawing equipment and serum contact time on laboratory tests (A), 953
- example of lyophilized protein-based materials not simulating patient sera (SN), 1812
- glucose, cholesterol, phosphate, Ca, total protein: influence of anal. variations on study of physiological variations (A), 1007
- individual and group variation (A), 922
- influence of age, sex, and oral contraceptives on blood cholinesterase acty. 1393
- micro-scale blood Pb detns. in screening: evaln. of factors affecting results, 533
- multivariate statistical anal. on 24 serum constituents classified by sex and age (A), 978
- sampling with air-piston pipets—a critical study (A), 1037
- sex-related patterns in urinary amino acids, 1970
- some theory of reference values. I. stratified (categorized) normal ranges and a method for following an individual's clin. lab. values, 1457
- sources of errors and artifacts in spectrophotometric measurements, 776
- specimen collection and stability in trace-elements anal. of body fluids, 595
- stability of constituents in human serum during storage (A), 953
- systematic approach to enzyme assay optimization, illustrated by aminotransferase assays, 1939
- temporal intrapersonal physiolog. variability of cholinesterase acty. in human plasma and erythrocytes, 1961
- trace elements in hair, as related to exposure in metropolitan New York, 603
- ultramicroscale detn. of clin. chem. values for blood during the first four days of postnatal life, 746
- Vidicon spectrometer**
applications of vidicon spectrometer to anal. problems in clin. chem. 1192
- vidicon spectrometer applied to simultaneous enzyme detns. 211
- Virus**
inhibition of Friend Virus-induced erythrocytosis by an erythrocytosis inhibitory factor (A), 998
- microanal. system for detn. of picogram quantities of metals in metalloenzymes, as illustrated with Zn-containing enzymes, 591
- Nelson-Town antiviral theory (A), 1034
- Vitamin B₁₂**
anaemia of kwashiorkor and marasmus in Kenya: relation to folic acid and vitamin B₁₂ (A), 1030
- linear standard curves for saturation anal. of 25-OH-vitamin D, vitamin B₁₂, cyclic AMP, T₄ and T₃ (A), 993
- practical applications of RIA theory: simple procedure yielding linear calibration curves, 1113
- serum vitamin B₁₂, Fe, and total Fe-binding capacity in strict vegetarians and nonvegetarians by radioisotopic assay (A), 1007
- Vitamin D**
linear standard curves for saturation anal. of 25-OH-vitamin D, vitamin B₁₂, cyclic AMP, T₄ and T₃ (A), 993
- mass fragmentographic detn. of vitamin D and related compounds (A), 1031
- Wolman's disease**
storage of glyceryl ether lipids in a case of Wolman's disease (A), 1013
- Wound healing**
effect of Zn deficiency and repletion on thymidine metab. 544
- ternary albumin Zn complexes in wound healing and Zn metabolism (A), 995

Zimmermann reaction

polarographic investigation of the
Zimmermann reaction mechanism (A), 1023

Zinc

determination of Zn in whole blood,
erythrocytes, and plasma of rhesus monkey
by at. ab. spectrophotometry (A), 995
effect of carbon cup aging on plasma Zn detn.

by flameless at. absorption spectrometry,
632

effect of matrix of std. on results of at.
absorption spectrophotometry of Zn in
serum, 588

selective demasking in spectrophotometric
erythrocyte Zn assay (A), 994

ternary albumin Zn complexes in wound

healing and Zn metabolism (A), 995

zinc deficiency in sickle cell disease, 582
Zn and Cu in human semen (A), 995

Zinc deficiency

serum and tissue enzyme activity and
trace-element content in response to Zn
deficiency in the pig, 568

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January: pages 1–182

February: pages 183–284

March: pages 285–466

April: pages 467–652

May: pages 653–802

June: pages 803–1056

July: pages 1057–1190

August: pages 1191–1356

September: pages 1357–1566

October: pages 1567–1708

November: pages 1709–1872

December: pages 1873–2066
